

**LUMMI NATION
SPILL PREVENTION AND RESPONSE CAPABILITY
DEVELOPMENT**

2015 Annual Synthesis Report



Prepared For:
Lummi Indian Business Council

Prepared By:
Water Resources Division
Lummi Natural Resources Department

January 2016

This project has been funded wholly or in part by the United States Environmental Protection Agency under Assistance Agreement No. BG-00J89601-0 to the Lummi Nation. The contents of this document do not necessarily reflect the views and policies of the Environmental Protection Agency, nor does mention of trade names or commercial products constitute endorsement or recommendation for use.

Introduction

Large amounts of crude oil, petroleum products, and other hazardous materials are transported and stored near the Lummi Indian Reservation (Reservation). These hazardous materials are transported by ships, pipelines, trucks, and railroad and are used, produced, and/or stored throughout the Reservation area, particularly in the Cherry Point Heavy Impact Industrial Zone immediately north of the Reservation boundary. Accidents, equipment failure, and human error have the potential to result in large spills and disastrous human and environmental consequences. Many of these hazardous materials are toxic to people and animals if inhaled or contacted. Oil and chemical spills or releases to waters on or adjacent to the Reservation have the potential to threaten public health and safety and destroy some of the most productive and valuable ecosystems in the world. Spills or releases of petroleum products, chemicals, or other hazardous materials to land can threaten public safety, public health, and the environment. To date, there has not been a large hazardous material spill on the Reservation that has impacted Lummi Nation Waters. However, future residential and economic growth on the Reservation, in the adjacent Cherry Point Heavy Impact Industrial Zone, and in areas upstream from the Reservation will increase the risk of a hazardous material emergency on the Reservation.

Because of the potential consequences, it is important for the Lummi Nation to develop and implement a plan to effectively respond to a hazardous material spill or release on or adjacent to the Reservation. The Lummi Natural Resources Department (LNR) has been actively developing spill response capabilities since the mid-1990s and completed the Lummi Nation Spill Prevention and Response Plan in October 2005 (LWRD 2005). Continuing efforts to develop spill prevention and response capabilities include staff training and spill response drills, equipment upgrades, planning, research, and public outreach. These efforts contribute to achieving the Lummi Nation goals of protecting the public health and safety of Reservation residents and protecting treaty rights to fish and gather throughout all usual and accustomed areas. These activities also contribute to achieving the EPA strategic goals of clean and safe water and healthy communities and ecosystems.

This annual synthesis report is a summary of the Lummi Nation spill prevention and response capability development activities conducted during the January 1, 2015 through December 31, 2015 period. The activities are divided into the following categories: Staff Training and Oil Spill Response Drills, Equipment, Oil Spill Response Incidents, Public Outreach, and Data Collection/Research.

Spill Prevention and Response Capability Development Activities

1. Staff Training and Oil Spill Response Drills:

Spill prevention and response training for staff members is conducted through both dedicated classes and through tabletop and boom deployment exercises. The staff members identified below attended the following training programs, workshops, or oil spill response drills during 2015.

- a) On January 7-8, 2015, Jeremy Freimund (Water Resources Manager) attended the Washington State Department of Ecology sponsored Salish Sea Workshop: Vessel Oil Spill Risk Assessment and Management. See attached agenda.
- b) On April 15-17, 2015, Lisa Cook (Water Resources Technician III) completed a 24-Hour Hazardous Waste Operations and Emergency Response Operations Course (HAZWOPER) hosted by the Swinomish Department of Environmental Protection and instructed by Global Diving and Salvage, Inc. See attached training certificate.
- c) On April 23, 2015, Kara Kuhlman (Natural Resources Analyst) attended the Northwest Straits Foundation Oil Spill Preparedness Workshop – Whatcom County in Bellingham, Washington. See attached agenda.
- d) On May 5-7, 2015, Jeremy Freimund, Kara Kuhlman, Jamie Mattson (Water Resources Specialist II), Victor Johnson (Natural Resources Specialist I), Hanna Winter (Water Resources Specialist I), and Lisa Cook participated in the SeaRiver Maritime, Inc. worst case discharge exercise held at the Seattle Marriot Waterfront Hotel. Lummi Natural Resources Department (LNR) staff members participated in the Unified Command, serving as the Tribal On-Scene Coordinator (TOSC) and Deputy TOSC, and in the Planning Section – Environmental Unit. See attached memorandum.
- e) As part of the 2015 update to the Lummi Nation Comprehensive Emergency Management Plan (CEMP), Kara Kuhlman participated in a one-day training on the plan on June 16, 2015 and a one-day tabletop drill exercising the plan on June 23, 2015. Jeremy Freimund also participated in the June 23, 2015 CEMP tabletop drill.
- f) On August 10-14, 2015, Lisa Cook completed a 40-Hour Northwest Oil Spill Control Course provided by the USCG and Marine Spill Response Corporation (MSRC) at the USCG Air Station in Port Angeles, Washington. See attached training certificate.
- g) On August 25, 2015, Kara Kuhlman completed an independent study course, “ICS for Single Resources and Initial Action Incident, ICS-200 (IS-00200.b),” offered by FEMA’s Emergency Management Institute. See attached training certificate.
- h) On September 1, 2015 and September 8, 2015, Lisa Cook completed two independent study courses offered by FEMA’s Emergency Management Institute: “Introduction to the Incident Command System, ICS-100 (IS-00100.b)” and “ICS for Single Resources and Initial Action Incident, ICS-200 (IS-00200.b),” respectively. See attached training certificates.
- i) On September 15-18, 2015, Lisa Cook completed an ICS-300 Intermediate Incident Command System Course provided by the USCG at Station Bellingham. See attached training certificate.
- j) On September 21-22, 2015, Kara Kuhlman completed an ICS-300 Intermediate Incident Command System Course provided by BP at the Cherry Point Refinery. See attached training certificate.
- k) On October 16, 2015, 14 staff members of the LNR and the Lummi Nation Police Department, 1 employee of MSRC, and 1 employee of the Whatcom County Division of Emergency Management conducted a half-day oil spill response drill with boom deployment at the Lummi Seapond Aquaculture Facility. See attached memorandum.

- l) On October 20, 2015, Frank Lawrence III (Natural Resources Specialist I), Jamie Mattson, Hanna Winter, and Lisa Cook observed an oil spill response drill with boom deployment at NPS-18 hosted by BP – Olympic Pipeline Company. See attached memorandum.
- m) On November 4-5, 2015, Elden Hillarie (Lummi Fisheries and Natural Resources Commission Chairman) and Jeremy Freimund participated as TOSC and Deputy TOSC in the BP Shipping and Alaska Tanker Company worst case discharge exercise conducted at the Whatcom Unified Emergency Coordination Center near Bellingham International Airport. Jamie Mattson, Hanna Winter, and Lisa Cook participated in the Planning Section – Environmental Unit. See attached memorandum.
- n) On December 8, 2015, Lisa Cook presented “Considerations, Costs, and Funding Sources for Developing Tribal Oil Spill Response Capabilities – the Lummi Nation Experience” at the Northwest Indian Fisheries Commission monthly meeting hosted by the Lummi Nation at the Silver Reef Hotel, Casino & Spa. See attached presentation slides.

2. Equipment:

- a) Routine maintenance of the 2010 Nissan Titan included regular servicing (e.g., oil and filter changes, rotate and balance tires), rust repair, and a multi-point inspection with associate minor repairs.
- b) Routine maintenance of the 1996 Jeep Cherokee included regular servicing, flushing and draining the brake fluid, power steering fluid, and rear differential fluid, battery replacement, and radiator repair.
- c) Routine maintenance of the Responder (spill response vessel) included a 200-hour service and associated minor repairs.

3. Oil Spill Response Incidents:

- a) On January 28, 2015, Lummi Water Resources Division (LWRD) staff responded to a report of illegal dumping on private property – the dumped materials were approximately 75 cylinder fluorescent light bulbs. The LWRD staff collected the dumped materials in large plastic bags and disposed of them at the Whatcom County Disposal of Toxics facility near Bellingham International Airport. See attached memorandum.
- b) On June 3, 2015, LWRD staff discovered what was initially thought to be a small oil spill to surface waters (i.e., sheen visible) at one of the Division’s regularly sampled water quality monitoring sites (SW003). Sorbent boom was deployed as a precautionary measure. See attached memorandum.
- c) On July 8, 2015, LWRD staff responded to a reported oil spill at a Sandy Point Heights residence. The source of the spill was a 50-gallon metal drum containing an unknown product (possibly used motor oil). The drum appeared to have been recently disturbed, which had resulted in a small spill to the surrounding soil. Staff deployed absorbent pads at the spill site and contacted the property owner to ensure that the drum, contents, and absorbent pads be properly disposed of at a toxic waste disposal facility. See attached memorandum.

- d) On July 15, 2015, LWRD staff discovered a small oil spill to surface waters (i.e., sheen visible) at one of the Division's regularly sampled water quality monitoring sites (SW072). Staff deployed sorbent pads at the spill site, retuning several days later to collect and dispose of the pads. See attached memorandum.
- e) On August 7, 2015, LWRD staff were notified of a reported spill from a Lummi tribal member owned purse seine fishing vessel moored at Squalicum Harbor. The spill had actually occurred two days earlier and had already been cleaned up. Regardless, one staff member responded to inspect the spill site, attempt to establish contact with the vessel owner/operator, and provide the vessel owner/operator with oil spill prevention and response resources. See attached memorandum.
- f) On October 13, 2015, LWRD staff responded to the complaint of an unknown odor filed by a property owner along Robertson Road (ERTS 660010). A site visit was conducted in coordination with Department of Health. No cleanup actions were undertaken. See attached memorandum.
- g) On November 12, 2015, there was a small diesel fuel spill (approximately 2 gallons) into Hale Passage that occurred during refueling of the Whatcom County ferry, the Whatcom Chief (Vessel No. 288249), at the Gooseberry Point ferry terminal. Record of the spill (NRC No. 1133384) is available at the U.S. Coast Guard National Response Center website. See attached memorandum.

4. Public Outreach:

The oil spill prevention and response activities were publicized in the community through articles in the Lummi Nation monthly newspaper (*Squol Quol*). *Squol Quol* articles are available at the Lummi Nation Communication Department website (http://www.lummi-nsn.org/website/dept_pages/communications/communi_home.shtml).

- a) The January 7-8, 2015 Washington State Department of Ecology sponsored Salish Sea Workshop: Vessel Oil Spill Risk Assessment and Management was reported in the February issue of the *Squol Quol*.
- b) The January 28, 2015 incident of illegal dumping was reported in the March issue of the *Squol Quol*. This issue also featured an article describing the proper disposal of hazardous wastes.
- c) Lisa Cook's completion of a 24-Hour HAZWOPER Course on April 15-17, 2015 and Kara Kuhlman's participation in Northwest Straits Foundation Oil Spill Preparedness Workshop – Whatcom County on April 23, 2015 were reported in the May issue of the *Squol Quol*.
- d) The May 5-7, 2015 worst case discharge exercise hosted by SeaRiver Maritime, Inc. was reported in the June issue of the *Squol Quol*.
- e) The July 8, 2015 oil spill at a Sandy Point Heights residence was reported in the August issue of the *Squol Quol*.
- f) Lisa Cook's participation in the Northwest Oil Spill Control Course hosted by the USCG on August 10-15, 2015 was reported in the September issue of the *Squol Quol*.

- g) Lisa Cook's completion of the ICS-300 course offered by the USCG on September 15-18, 2015 and Kara Kuhlman's completion of the ICS-300 course offered by BP on September 21-22, 2015 were reported in the October issue of the *Squol Quol*.
- h) The October 16, 2015 spill drill that was conducted by the Lummi Spill Response Team was reported in the November issue of the *Squol Quol*. This issue also featured an article describing the Washington State Department of Ecology program called Vessels of Opportunity (VOO).
- i) The November 4-5, 2015 worst case discharge exercise hosted by BP Shipping and Alaska Tanker Company was reported in the December issue of the *Squol Quol*.

Information about oil spill prevention and response capabilities (e.g., training logs, emergency contact information, equipment list, Unified Command Structure for the Lummi Natural Resources Department) is also published on the Water Resources Division page of the Lummi Natural Resources Department website (<http://lnnr.lummi-nsn.gov/LummiWebsite/Website.php?PageID=67>) and regularly updated.

Other public outreach activities over the January 1, 2015 through December 31, 2015 period included the December 8, 2015 presentation to the Northwest Indian Fisheries Commission as described previously.

5. Data Collection/Research:

The Lummi Natural Resources Department staff regularly conducts data collection activities and research in support of the overall departmental mission to protect and restore tribal natural resources. These data collection/research activities support the goals of the oil spill prevention and response capability development by documenting background and ambient conditions. This information will be useful in evaluating the effectiveness of response efforts in the event of an oil spill and to protect public health and safety.

In addition, the Lummi Water Resources Division has conducted a number of activities that support efforts to prevent and respond to spills including developing and adopting water quality standards, storm water management regulations, and regulations that identify civil fines for activities that negatively impact Lummi Nation Waters.

Although some of these data collection/research and related activities are funded through the EPA (e.g., the ambient water quality monitoring program), other data collection and research activities are supported through other funding sources. Data collection/research activities conducted during 2015 that were focused on quantifying the tribal natural resources on tribal tidelands included the annual Manila Clam Stock Assessment Survey for 2015, which was conducted in Lummi Bay, Portage Spit, Brant Flats, and Brandt Island.

Reference:

Lummi Water Resources Division (LWRD). 2005. Oil Spill Prevention and Response Plan. Prepared for the Lummi Indian Business Council. October.

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ATTACHMENTS

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**Salish Sea Workshop:
Vessel Oil Spill Risk Assessment and Management**

**Whatcom County Emergency Operations Center
3888 Sound Way, Bellingham, WA 98226
7 – 8 January 2015**

Wednesday, 7 January 2015

- 08:15–08:45: Registration**
- 08:45–09:00: Opening**
- 09:00–09:15: Welcome**
- 09:15–09:30: Goals, Agenda, and Ground Rules**

Risk Assessment Session

- 09:30–10:00: Overview of Waterway and Current Operating Practices [Presentations with Q&A]**

Review of Salish Sea Studies

- 10:00–10:45 VTRA 2010 [Presentation with Q&A]**
- 10:45–11:00: Break**
- 11:00–11:25: BP Cherry Point & Gateway Pacific Terminal [Presentation with Q&A]**
- 11:25–12:15: Working Lunch**
- 12:15–12:40: Trans Mountain [Presentation with Q&A]**

12:40–13:05: Roberts Bank Terminal 2 [Presentation with Q&A]

13:05–13:20: Marine & Rail Oil Transport Study [Presentation with Q&A]

13:20–13:35: Break

Summary of Risks

13:35–14:20: Assessment of Vessel Accident Risks [Panel/Group Discussion]

14:20–15:50: Specific Issues of Relatively Higher Risk [Breakout/Group Discussion]

15:50–16:45: Consensus on Risk Factors and Ranking [Group Discussion]

16:45–17:00: Wrap-up

Thursday, 8 January 2015

08:15–08:30: Review of Day's Goals and Process

Best Practices Session

08:30–10:00: Best Operating Practices [Industry Panel/Presentations with Q&A]

10:00–10:15: Break

10:15–10:45: Best Achievable Protection [Panel Presentation with Q&A]

Risk Reduction Session

10:45–12:15: Risk Reduction Options: Evaluation/Ranking [Breakout/Group Discussion]

12:15–13:00: Working Lunch

13:00–14:00: Classification of Risk Reduction Options for Action [Group Discussion]

14:00–14:15: Break

14:15–15:45: Next Steps/Assignment of Tasks for Actionable Items [Panel/Group Discussion]

15:45–16:00: Wrap Up

CERTIFICATE OF TRAINING

To acknowledge the completion of

24 HOUR CLASSROOM TRAINING IN HAZARDOUS WASTE OPERATIONS & EMERGENCY RESPONSE OPERATIONS

(HAZWOPER)

In accordance with CFR 1910.120

Lisa Cook

Student's Name

Has completed this course on

April 16, 2015

Date

3840 W Marginal Way SW
Seattle, WA 98106
Fax: 206-623-0621
Ph: 206-623-0621
safety@gdiving.com

Global Diving and Salvage, Inc.

Angela Moretti

Instructor

- Legislation & Standards
- Notifications & Site Control/Characterizations
- Hazard Communication & Toxicology
- Hazard Recognition
- Site Safety & Air Monitoring
- Materials Handling
- DOT & Shipping
- Respiratory Protection
- Emergency Action Procedures
- Personal Protective Equipment
- Decontamination & Disposal
- Media 101
- Shoreline Cleanup
- Lock Out Tag Out
- Hearing Conservation
- Confined Space Awareness Training
- Oil Spill 101
- Homeland Security Awareness
- ICS 100
- Field Operations

Refresher Due (1 year): 4/16/2016

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Northwest Straits Foundation Oil Spill Preparedness Workshop – Whatcom County

April 23, 2015 – 1:00 pm – 4:00 pm
Bellingham Yacht Club: Ward Room
2625 South Harbor Loop Dr.
Bellingham, WA 98225

WORKSHOP GOALS:

- Provide Whatcom County elected officials and emergency managers an overview of Washington State oil spill prevention, preparedness and response framework
- Clarify roles and responsibilities of federal, tribal, state and local officials and managers and potential responsible parties during oil spill response
- Understand how communities can get involved before, during and after oil spills occur

AGENDA:

1:00 PM	Welcome and Introductions (20 minutes) <ul style="list-style-type: none">• Housekeeping• Agenda Review	Foundation Representative/Facilitator
1:20 PM	Project Overview (10 minutes) <ul style="list-style-type: none">• Workshops conducted for public – last spring• The purpose of today's workshop	Facilitator
1:30 PM	Key difference between Stafford Act Response (20 minutes) OPA 90 Response and ICS – Linda Pilkey-Jarvis (Ecology)	
1:50 PM	BREAK (10 minutes)	
2:00 PM	Overview of state and federal oil spill program (30 minutes) <ul style="list-style-type: none">• Federal program – Captain Joe Raymond (US Coast Guard)• State program – Dave Byers (Ecology)• State Oil Wildlife Program – Don Noviello (Fish & Wildlife)	
2:30 PM	Industry Preparedness and Response – (30 minutes) - Scott McCreery (BP Refinery)	
3:00 PM	Topic of Concern: How do communities get involved before, during and after oil spills (30 minutes) – Linda Pilkey-Jarvis (Ecology)	
3:30 PM	Q & A and Evaluation	All

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MEMORANDUM

DATE: May 12, 2015

TO: Jeremy Freimund, Water Resources Manager

FROM: Kara Kuhlman, Natural Resources Analyst

SUBJECT: SeaRiver Maritime, Inc. Worst Case Discharge Exercise

SeaRiver Maritime, Inc., a wholly owned subsidiary of ExxonMobile, hosted their 2015 Washington State Worst Case Discharge Exercise on May 5-7, 2015. The spill drill simulated an Alaska North Slope crude spill of approximately 3.5 million gallons into the Strait of Juan de Fuca from a tanker collision with a container ship. The spill drill was conducted at the Seattle Marriot Waterfront Hotel. The exercise plan is attached.

Six (6) Natural Resources Department (LNR) staff participated in the drill as follows:

May 5, 2015 (Training) – Kara Kuhlman (Natural Resources Analyst), Jamie Mattson (Water Resources Specialist II), Hanna Winter (Water Resources Specialist I), and Lisa Cook (Water Resources Technician III)

May 6, 2015 (Drill Day 1):

- Tribal On-Scene Coordinator (TOSC) Representative: Kara Kuhlman
- Deputy TOSC: Lisa Cook
- Planning Section, Environmental Unit: Jamie Mattson and Hanna Winter

May 7, 2015 (Drill Day 2):

- TOSC: Victor Johnson (Natural Resources Specialist I)
- Deputy TOSC: Jeremy Freimund (Water Resources Manager)
- Planning Section, Environmental Unit: Kara Kuhlman, Jamie Mattson, Hanna Winter, and Lisa Cook

THIS IS AN EXERCISE

THIS IS AN EXERCISE

2015 SEARIVER MARITIME WASHINGTON STATE EXERCISE PARTICIPANTS HANDBOOK



EXERCISE COORDINATION CONTACTS:

ART POWERS – (703) 677-2852

JOHN PACE – (281) 380-2922

Table of Contents

Introduction.....	3
Exercise Logistics	3
Agenda.....	4
Exercise Objectives.....	5
Out of Play	5
Exercise Ground Rules.....	6
Participant Recognition	7
External SharePoint Help.....	8

Introduction

Welcome to the 2015 SeaRiver Maritime Washington State exercise. This year's exercise is the result of planning by SeaRiver, WA ECY, NOAA, Witt O'Brien's, MSRC, and ExxonMobil and will simulate a vessel collision and resultant oil spill in Puget Sound.

This exercise will be evaluated by the Washington State Department of Ecology and the U.S. Coast Guard.

Exercise Logistics

- Exercise Location: [Seattle Marriott Waterfront](#)
2100 Alaskan Way, Seattle, Washington 98121
Phone: (206) 443-5000
- Exercise participants parking at the hotel can get a voucher for parking from the exercise coordinator daily before departing
- *WiFi will be available throughout the exercise and will be limited to one device per person. Please restrict your use of the hotel Wi-Fi to exercise business only out of respect to the rest of the team*

Command Post Room Assignments

- Command Center
 - Grand Pacific D, E, F, G; Ballroom Level (Downstairs)
- Meals / Training
 - Grand Pacific A, B, C; Ballroom Level (Downstairs)
- Unified Command Room
 - Executive Board Room; Ballroom Level (Downstairs)
- Control/Truth Room
 - Harbor Room; Ballroom Level (Downstairs)
- Planning Room
 - Seaport Room; Ballroom Level (Downstairs)
- *SeaRiver Go Team Jet (Weds AM only)*
 - *Seaport Room; Ballroom Level (Downstairs)*
- Press Room
 - Grand Pacific C; Ballroom Level (Downstairs)
- Spare Meeting Space
 - Maritime Room, Lobby Level

Dining Logistics

- Tuesday
 - 0630 Breakfast: Ballroom Foyer
 - 0930 Break
 - 1130 Lunch: Ballroom Foyer
 - 1430 Break
 - 1800 Dinner: Dinner Cruise
- Wednesday
 - 0600 Breakfast: Ballroom Foyer
 - 0930 Refreshments
 - 1130 Refreshments
 - 1700 Dinner: Hook & Plow
- Thursday
 - 0600 Breakfast: Ballroom Foyer
 - 0930 Refreshments
 - 1130 Working Lunch: Hook & Plow
 - 1430 Refreshments

Agenda

All times in 24-hr format

General Schedule

Monday, May 4

- 1700 - 2000 Welcome Reception & Badging, Ballroom A-G Foyer, Ballroom Level of the Seattle Marriott

Tuesday, May 5

- 0800 - 1500 SeaRiver/IMT/NARRT Training in Ballroom A-C, Ballroom Level of the Seattle Marriott
- 1500 - 1700 Section Meetings
- 1800 - 2100 Evening Boat Tour and Dinner, Argosy Cruises, Alaskan Way
 - **(1730 VESSEL BOARDING)**

Wednesday, May 6

- 0600 - IMT Begins Exercise, Ballroom D-G Ballroom Level of the Seattle Marriott
- 0800 - 1200 NARRT Training in Ballroom A-B, Ballroom Level of the Seattle Marriott
- 1200 - 1800 S/RM Go Team Arrival, Transition into Response
- 1300 - 1800 NARRT Arrival, Transition into Response

Thursday, May 7

- Full Exercise Day, Conclude with IAP
- Hot Wash After Action Review

Friday, May 8

- S/RM / NARRT Travel Day

Training Day Schedule

Tuesday, May 5

- 0800 Hotel Safety Briefing & Opening Remarks
- 0815 NW ACP Review
- 0900 MSRC Resources and WRRL
- 0930 Break
- 0945 MTSRU
- 1030 Documentation
- 1130 Lunch
- 1230 WA Political Environment
- 1400 Break
- 1415 Dispersants
- 1500 Section Meetings
- 1800 Evening Boat Tour and Dinner, Argosy Cruises, Alaskan Way

Exercise Objectives

- Meet Regulatory Requirements
 - SeaRiver (S/RM) -- State of Washington DOE Cycle (2013 – 2015)
 - Worst Case Discharge(WA State)/Command Post Exercise
- Establish Unified Command including Federal, State, Tribal, Local Stakeholders, Trustees, Local On Scene Coordinator (LOSC) and RP
- Develop and validate vessel Place of Refuge plan, including vessel salvage/casualty plan, transit plan and repair plan
- Use NWACP and GRP's together with SeaRiver's VRP and WA State Appendices
- Based on net environmental benefit analysis, SMT will consider use of all tools (i.e. mechanical, in-situ burning and dispersant use)
- Develop waste management plans to include estimation, collection, storage, and disposal of consumables; decanting operations
- Establish divisions to effectively manage response operations
- Validate processes and planning requirements for staging areas
- Effectively manage wildlife issues in the response
- Develop SCAT plan for shoreline impact and cleanup; Consider alternate technologies such as cleaning agents and bioremediation
- Validate ability to identify and address resources at risk
- Validate Effective External Positioning
 - UC decision-making
 - Joint Information Center (JIC) performance
 - Effectively mount community/public outreach
 - Monitor and effectively respond to public input (information management)
 - Manage public expectations
 - Use of Public Information for Emergency Response (PIER) system
- Validate ability to develop and have approved Incident Action Plan
- Utilize the USCG Marine Transportation System Recovery Unit for prioritization of reopening waterway
- Effectively engage RRT
- Effectively incorporate and engage SERT
- Provide familiarization opportunity for SeaRiver/NARRT teams

Out of Play

- Volunteer Program
- NRDA
- CAN/US PAC
- Security/Terrorism
- Incident Notification
- Night Operations
 - To be simulated through Exercise Control

Exercise Ground Rules

- All exercise participants are expected to comply with established SeaRiver Maritime, Inc. life safety and security rules/procedures at all times that they occupy the hotel facility.
- In the event of an actual emergency, the Lead Exercise Controller and appropriate governmental agencies, SeaRiver Maritime, Inc. management will assess the situation. If required, the Lead Exercise Controller will declare a cease to exercise play. ALL PARTICIPANTS NOT DIRECTLY INVOLVED IN THE ACTUAL EMERGENCY RESPONSE are requested to assemble immediately at the established marshalling locations outside of the Seattle Marriott Waterfront Hotel muster areas for further instructions.
- If Exercise Control judges that a suspension of play will expedite meeting overall objectives, the Lead Exercise Controller will declare a "Timeout". All exercise play will freeze at the timeout and will start at that point when play is resumed unless otherwise specified by Exercise Control.
- All exercise calls should be directed to numbers listed in the Exercise Phone Directory. Except for select calls to government agencies and oil spill response contractors NO CALLS to parties external to the Exercise Control Room are permitted unless approved by Exercise Control.
- If contact with organizations outside of numbers listed in the Exercise Phone directory is permitted, DO NOT mobilize any real equipment, or make any real purchases other than equipment planned by SeaRiver Maritime, Inc. to the Houston, TX HQ's Emergency Support Group (ESG).
- The exercise will proceed in real time until exercise objectives are achieved as determined by Exercise Control.
- Oil spill fate, weather, sea state, field operations, logistical response, media and external world reaction to the incident are being simulated in the exercise. Actual data is to be utilized for sunrise/sunset times. Appropriate data and materials required by exercise players relative to monitoring or assessing the status of any simulated aspect will be provided by the Exercise Control.
- Exercise Control is the only source of valid exercise injects. Please DO NOT introduce contemporaneous injects without consulting first with the Exercise Director or Exercise Controller.
- Exercise players are expected to produce all appropriate products required by established response plans and protocols.
- This exercise is a test of established response plans and teams, not individuals. Please respond as you would if the situation were real. If you have any questions regarding exercise play, contact the Exercise Director or Exercise Controller.
- As needed, a specified location within the hotel is available for staging simulated media conferences, community meetings and other group meetings as required. Contact Exercise Control to make appropriate arrangements for the venue that you require.
- **All verbal communications should begin and end with "This is an exercise". All email and written communications should be clearly marked "This is an exercise" (on all hard copy pages – preferably top and bottom).**

Participant Recognition

SeaRiver and ExxonMobil would like to offer a special thank you to the U.S. Coast Guard Sector Puget Sound, the Washington Department of Ecology, NOAA, Witt-O'Brien's, MSRC, The Response Group, and JVZ Response, Inc, for their support in designing and executing this exercise.

We would also like to thank the agencies that were able to attend and support the drill activities as well as all of our response organizations and industry partners who took the time to attend and fill response, controller, or evaluation roles.

- United States Coast Guard
- Washington Department of Ecology
- NOAA
- Washington Department of Fish & Wildlife
- US Department of the Interior
- Region 10 Regional Response Team
- Lummi Nation
- San Juan County Emergency Management
- Witt-O'Brien's
- Marine Spill Response Corp
- The Response Group
- JVZ Response, Inc.
- T&T Salvage
- Hill + Knowlton
- International Bird Rescue
- Puget Sound Pilots
- Polar Tankers
- Kirby
- Moran Shipping
- Tesoro
- BP Shipping
- Conoco Phillips
- Chevron
- Alaska Tankers
- TransMarine Navigation Corp

External SharePoint Help

- What is Extranet?
- Logon Information
- Tips for Success
- FAQs: IDs and Access
- FAQs: Using the Extranet Site
- Common Issues

Certificate of Training

This certifies that

Lisa Cook


Has successfully completed the training program requirements for

40-Hour Northwest Oil Spill Control Course

and has received 24 hours training in Hazardous Waste Operations as described in
29 CFR 1910.120 Appendix E

Training conducted 10-14 August 2015
Port Angeles, Washington


Jacob Marguardt, MSt1
District 13, Response Advisory Team
United States Coast Guard


Craig Cornell, Response Manager
Pacific Northwest Region
Marine Spill Response Corporation

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Emergency Management Institute



FEMA

This Certificate of Achievement is to acknowledge that

KARA KUHLMAN

has reaffirmed a dedication to serve in times of crisis through continued professional development and completion of the independent study course:

IS-00200.b

**ICS for Single Resources and
Initial Action Incident, ICS-200**

Issued this 25th Day of August, 2015



Tony Russell
Superintendent
Emergency Management Institute

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Emergency Management Institute



FEMA

This Certificate of Achievement is to acknowledge that

LISA A COOK

has reaffirmed a dedication to serve in times of crisis through continued professional development and completion of the independent study course:

IS-00100.b

Introduction to Incident Command System

ICS-100

Issued this 1st Day of September, 2015



Tony Russell
Superintendent
Emergency Management Institute

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Emergency Management Institute



FEMA

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has reaffirmed a dedication to serve in times of crisis through continued professional development and completion of the independent study course:

IS-00200.b

**ICS for Single Resources and
Initial Action Incident, ICS-200**

Issued this 8th Day of September, 2015




Tony Russell
Superintendent
Emergency Management Institute

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United States Coast Guard Training Center Yorktown

Marine Safety Branch

This certifies that

Lisa Cook

has successfully completed the

ICS-300 Intermediate Incident Command System Course

Bellingham, Washington

September 18, 2015

Training delivered in accordance with NIMS Training Program (Sep 2011)



William Whitson

William Whitson
ICS-300 Lead Instructor

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Certificate of Completion

Awarded to


Kara Kuhlman

For successfully completing


*ICS 300 Intermediate ICS for Expanding Incidents
(IMS Fundamentals with Incident Action Planning)*

16 hours

September 21-22, 2015


Lisa Saint, Group C&CM Advisor




Scott McCreery, C&CM Manager

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LUMMI INDIAN BUSINESS COUNCIL

2665 KWINA ROAD BELLINGHAM, WASHINGTON 98226 (360) 312-2000

MEMORANDUM

DATE: October 21, 2015

TO: Jeremy Freimund, Water Resources Manager

FROM: Kara Kuhlman, Natural Resources Analyst

SUBJECT: October 16, 2015, Seapond Oil Spill Response Drill (NPS-15 and NPS-17)

The purpose of this memorandum is to summarize the spill drill that took place on October 16, 2015.

Participants:

The following staff and guests participated in the drill:

1. Kara Kuhlman, LNR Natural Resources Analyst
2. Jamie Mattson, LNR Water Resources Specialist
3. Chris Phair, LNR Watershed Restoration Technician
4. Michael Williams, LNR Field Technician
5. Ralph Phair, LNR Field Technician
6. Jesse Cooper, LNR Field Technician
7. Eli Hullford, LNR AmeriCorps Intern
8. Gregg Dunphy, LNR TFW Manager
9. Zachary Lane Sr., LNR Shellfish Hatchery Technician
10. Nannette Christianson, LNR Shellfish Hatchery Technician
11. Ed Conway, LNPd Natural Resources Sergeant
12. Aaron Hillaire, LNPd Natural Resources Officer
13. Gary James, LNPd Natural Resources Officer
14. Tracy Ginn, LNPd Natural Resources Officer
15. Ken Schacht, Marine Spill Response Corporation (MSRC)
16. Wally Kost, Whatcom County Division of Emergency Management

Drill Strategy:

The exercise was a half-day oil spill response drill with boom deployment. The goal of the drill was to deploy boom strategies NPS-15 and NPS-17 of the Geographic Response Plan (GRP) for the North Puget Sound (NPS) region (see attached diagrams). NPS-15 and NPS-17 call for 200 feet and 600 feet of deflection boom, respectively, to be placed in a chevron arrangement on the seaward side of the Seapond Aquaculture Facility tide gates for the purpose of preventing oil from entering the Seapond.

Drill Goals:

1. Ensure the safety of response personnel

2. Test initial response and exclusion booming
3. Deploy multiple boom strategies in a short period of time
4. Practice teamwork

Briefing and Scenario:

During the pre-deployment briefing meeting held in Conference Room A on the second floor of the Tribal Administration Building (2665 Kwina Rd.), Kara Kuhlman outlined the scenario for the day and addressed each of the agenda items. In the scenario, there has been a spill of approximately 25,000 gallons of Alaska North Slope Crude as the result of an oil tanker accident north of Lummi Island (NPS-C) – the spill is predicted to enter Lummi Bay by evening. Unified Command has directed the Lummi Spill Response Team to deploy NPS-15 and NPS-17 to protect the Seapond Aquaculture Facility. A separate team has been deployed to complete the booming strategies on the north side of the Seaponds.

Briefing Agenda:

1. Check-In and Introductions
2. Scenario Briefing and Drill Objectives
3. Safety Briefing (Air Quality , PFDs, Hydration, Buddy System, Situational Awareness)
4. Incident Command System (ICS) Review
5. Staff Assignments
6. Questions/Comments

Tide Predictions for October 16, 2015:

High Tide: 8'3" at 8:35 am

Low Tide: 5'3" at 2:02 pm

High Tide: 7'9" at 7:04 pm

Timeline:

Table 1 summarizes the spill drill events.

Table 1: Timeline of the October 16, 2015 Oil Spill Response Drill

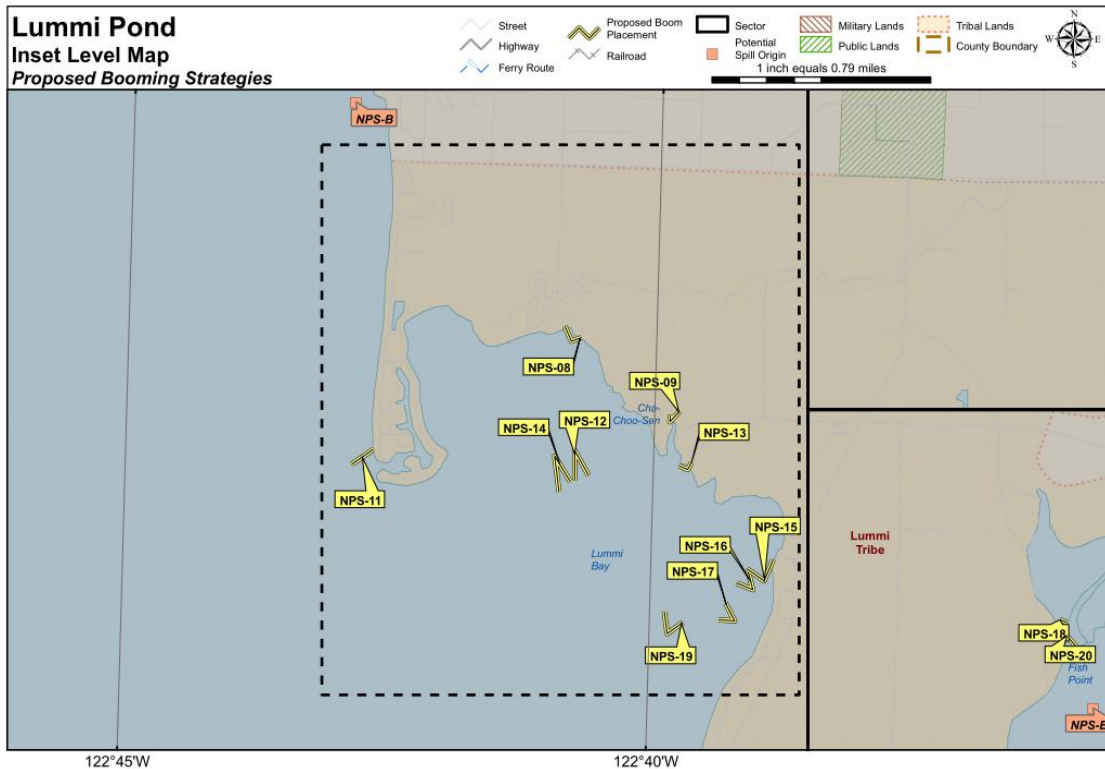
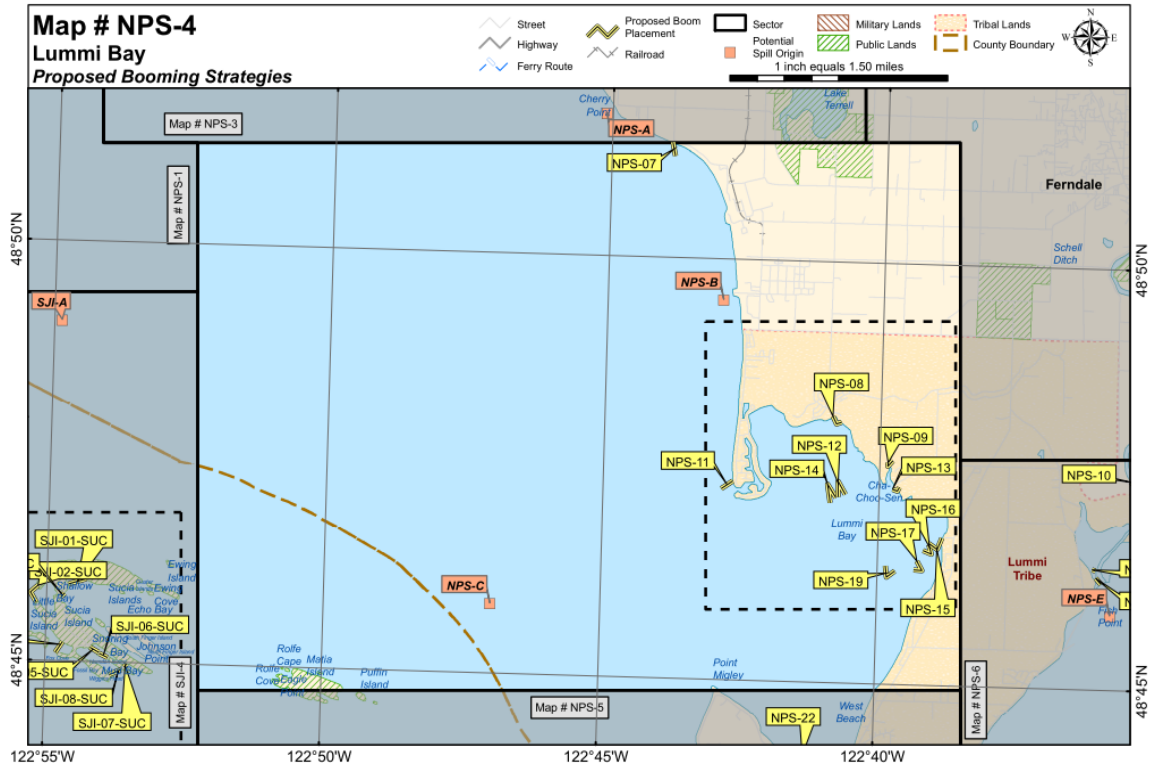
Time	Event
9:40 am	Pre-deployment briefing meeting begins.
10:00 am	Pre-deployment briefing meeting ends.
10:10 am	Police depart Tribal Administration Building (TAB).
10:15 am	Police arrive at NPS-15.
10:32 am	The boom trailer departs the TAB.
10:33 am	The Responder departs the TAB.
10:40 am	The boom trailer arrives at NPS-15.
10:57 am	The Responder arrives and is launched at Gooseberry Point.
11:00 am	Boom unloaded and prepositioned for deployment at NPS-15 (i.e., aligned along shoreline, anchored at either end).
11:08 am	Boom trailer departs for NPS-17.

11:10 am	Boom trail arrives at NPS-17 and boom unloading begins.
11:12 am	The Responder arrives at NPS-15.
11:18 am	Responder crew completes deployment of NPS-15 and departs for NPS-17.
11:35 am	Boom deployment at NPS-17 complete.
11:45 am	Boom anchor at NPS-17 is pulled and crew begins hauling boom ashore. The Responder departs for NPS-15.
11:48 am	Boom anchor at NPS-15 is pulled and crew begins hauling boom ashore. The Responder departs for Gooseberry Point.
11:57 am	Boom reloading onto the trailer at NPS-17 complete. Boom trailer departs for NPS-15.
12:05 pm	Boom reloading onto the trailer at NPS-15 complete.
12:06 pm	Police and boom trailer depart NPS-15.
12:10 pm	The Responder is recovered at Gooseberry Point.
12:15 pm	Police and boom trailer arrive at TAB.
12:29 pm	The Responder arrives at TAB.
12:40 pm	De-briefing meeting begins.
1:00 pm	End of drill.

Results:

The following are “lessons learned” and recommendations resulting from the drill:


- The time required to prepare the Responder and boom trailer for departure from the Tribal Administration Building was minimal, both vehicles were in route in approximately 30 minutes. For vehicles departing the Tribal Administration Building and driving directly to the first boom deployment site (NPS-15) the travel time was approximately 5 minutes. From the time the Responder left the Tribal Administration Building, it took approximately 45 minutes for the vessel to reach NPS-15. Boom deployment at both sites (NPS-15 and NPS-17) was successfully completed in approximately 1 hour and 35 minutes after dismissal from the pre-deployment meeting.
- Under the given weather conditions and tide, the spill team found that 100 feet of boom was sufficient for NPS-15 (instead of 200 feet) and that 400 feet of boom was sufficient for NPS-17 (instead of 600 feet). However, it was noted that more boom would likely be necessary if it were to be deployed for an extended period of time, at a different tidal height, or during adverse weather conditions.
- There is currently a high level of participation in spill drills, which is excellent from a training perspective but also poses organizational difficulties. As recommended in the “lessons learned” from spill drills conducted in 2014, we formally organized the drill participants into strike teams (i.e., boat team, boom trailer team, and shoreline team) during the pre-deployment briefing meeting. The strike team approach proved successful for improving the organization of the drill, giving everyone the opportunity to actively participate in the drill, and to providing more focused training in each sector of the drill.




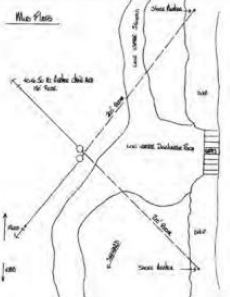

4.5 Proposed Booming and Collection Strategies - Matrices

Table 4-12: Proposed Booming Strategies and Resources Targeted (Cont)

Strategy	Current Status	Location (NAD83 HARN)	Response Objective	Feet of Boom	Strategy Implementation	Shoreline Oblique Photo	Resources Targeted
IF FIELD CONDITIONS REQUIRE MODIFICATION DO IT, THEN NOTIFY COMMAND							
NPS-15	Visited and Not Tested 07/28/2008	Lummi Pond SE-1 N 48° 46.655' W 122° 38.998' map page 4-19 Chart # 18421	Exclusion - Keep oil out of pond.	200ft B2 - Contractor Boom	Small gate with broken concrete rip-rap at the mouth. Deploy 200' chevron deflection boom to divert oil on flood tide away from gate. Avoid fouling boom on broken concrete. Anchor boom ends to shore anchors. Contact immediately or before entering: Contact Lummi Nation, (W) 360 384-2266, (M) 360-410-1706, (H) 360 384-2225, First number is for police, second and third is for natural resources dept.	http://apps.ecy.wa.gov/shorephotos/scripts/bigphoto.asp?id=WHA0217	tribal lands/resources, shellfish

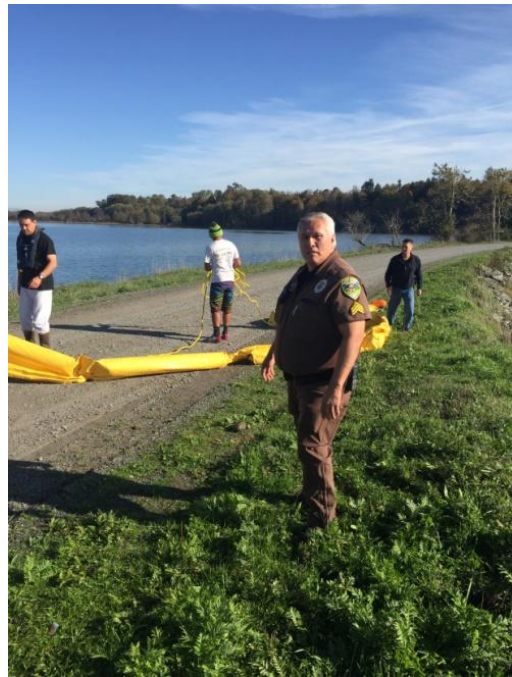
Lummi Pond SE-1		NPS-15-Average	4-102
Site Lat/Long:	N 48° 46.655' / W 122° 38.998', Sector Map NPS-4		
Strategy Objective:	Exclusion - Keep oil out of pond.		
Implementation:	Small gate with broken concrete rip-rap at the mouth. Deploy 200' chevron deflection boom to divert oil on flood tide away from gate. Avoid fouling boom on broken concrete. Anchor boom ends to shore anchors.		
Site Safety Note:	Sea Pond Dike Rd., is a very bumpy dirt road with large periodic dips.		
Field Notes:	You can deploy from the Sea Pond Dike Rd., but you need a vehicle with high clearance.		
Resources Targeted:	tribal lands/resources, shellfish		
Watercourse Description:	Pond		
			
Suggested Equipment			
Quantity	Description		
200 ft	B2 - Contractor Boom		
1 each	Danforth(s) or other appropriate anchor		
4 each	Stake(s)		
1 each	Work Boat(s)		
Suggested Personnel			
1	Boat Operator (s)		
2	Laborer (s)		
Status: Visited and Not Tested 07/28/2008			

Lummi Pond SE-3		NPS-17-Average	4-106												
Site Lat/Long:	N 48° 46.432' / W 122° 39.245', Sector Map NPS-4														
Strategy Objective:	Exclusion - Keep oil out of pond.														
Implementation:	Install Shore anchors either side of tidal gates. Anchor 500'-600' boom in chevron seaward to deflect oil away from gates. (May require substantial off shore anchors to hold chevron)														
Site Safety Note:	Sea Pond Dike Rd., is a very bumpy dirt road with large periodic dips.														
Field Notes:	You can deploy from the Sea Pond Dike Rd., but you need a vehicle with high clearance.														
Resources Targeted:	tribal lands/resources, shellfish														
Watercourse Description:	Pond														
		Suggested Equipment <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Quantity</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>600 ft</td> <td>B2 - Contractor Boom</td> </tr> <tr> <td>3 each</td> <td>Danforth(s) or other appropriate anchor</td> </tr> <tr> <td>2 each</td> <td>Work Boat(s)</td> </tr> </tbody> </table> Suggested Personnel <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="width: 15%;">2</td> <td>Boat Operator (s)</td> </tr> <tr> <td>2</td> <td>Laborer (s)</td> </tr> </tbody> </table> <p>Status: Visited and Not Tested 07/29/2008</p>		Quantity	Description	600 ft	B2 - Contractor Boom	3 each	Danforth(s) or other appropriate anchor	2 each	Work Boat(s)	2	Boat Operator (s)	2	Laborer (s)
Quantity	Description														
600 ft	B2 - Contractor Boom														
3 each	Danforth(s) or other appropriate anchor														
2 each	Work Boat(s)														
2	Boat Operator (s)														
2	Laborer (s)														

Lummi Pond SE-3		NPS-17-Average	4-107
		Site Contact Information High Priority - contact immediate or before entering: Contact Lummi Nation, (W) 360 384-2266, (M) 360-410-1706, (H) 360 384-2225. First number is for police, second and third is for natural resources dept.	
Image-1192: Drawing		Image-1193: SE-3 aerial showing boom.	
		Closest Address: 98226	
		Driving Directions: Cannot Drive to Site	



Boom trailer positioned for unloading at NPS-15



Sergeant Ed Conway is the Operations Section Chief



Boom is unloaded at NPS-15



Boom unloading continues



Boom is pre-positioned along the shoreline



Towing the boom into a "chevron"



Boom deployment complete (100 ft) at NPS-15



Boom is unloaded and deployed at NPS-17



Boom deployment complete (400 ft) at NPS-17



The Responder crew



Boom recovery at NPS-17 complete



Boom recovery at NPS-15 complete



MEMORANDUM

DATE: October 22, 2015

TO: Jeremy Freimund, Water Resources Manager

FROM: Kara Kuhlman, Natural Resources Analyst

SUBJECT: BP – Olympic Pipeline Company Boom Deployment Drill (NPS-10 and NPS-18)

The BP – Olympic Pipeline Company, with the assistance of the Marine Spill Response Corporation (MSRC), conducted a spill drill with boom deployment at NPS-10 and NPS-18 on October 20, 2015. Permission for access to and temporary use of Lummi lands were granted by the Lummi Planning Department and affected private property owners. Four (4) Lummi Natural Resources Department (LNR) staff observed the boom deployment at NPS-18 (see photos), including Frank Lawrence III (Natural Resources Specialist I), Jamie Mattson (Water Resources Specialist II), Hanna Winter (Water Resources Specialist I), and Lisa Cook (Water Resources Technician III).



Boom unloading



Boom deployment begins



NPS-18 is fully deployed



MEMORANDUM

DATE: November 9, 2015

TO: Jeremy Freimund, Water Resources Manager

FROM: Kara Kuhlman, Natural Resources Analyst

SUBJECT: BP Shipping and Alaska Tanker Company Worst Case Discharge Exercise

The purpose of this memorandum is to document the participation of the Lummi Fisheries and Natural Resources Commission Chairman and four Lummi Natural Resources Department staff members in the BP Shipping and Alaska Tanker Company (ATC) worst case discharge exercise (Washington State Exercise 2015) on November 4-5, 2015. The spill drill was conducted at the Whatcom Unified Emergency Coordination Center in Bellingham, WA. The exercise plan is attached.

Participation in the drill was as follows:

- Tribal On-Scene Coordinator (TOSC): Elden Hillaire (Lummi Fisheries and Natural Resources Commission Chairman)
- Deputy TOSC: Jeremy Freimund (Water Resources Manager)
- Planning Section, Environmental Unit:
 - Jamie Mattson (Water Resources Specialist II)
 - Hanna Winter (Water Resources Specialist I)
 - Lisa Cook (Water Resources Technician III) – participated on November 5th only



Figure 1. The Unified Command address the General Staff



Figure 2. Elden Hillarie speaks in his role as the Tribal On-Scene Coordinator



Figure 3. The Unified Command address the media in a mock press conference

Participant Handbook

BP Shipping & ATC with BP Cherry Point Washington State Exercise 2015 November 3-5, 2015 Bellingham, WA



Developed By:



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WELCOME

BP Shipping & ATC welcomes each of you to the Washington State Exercise 2015. BP Shipping & ATC are committed to responding quickly and effectively to incidents and we routinely test our trained teams on a range of possible scenarios, including a simulated tanker allision.

PREFACE

This Participant Handbook was produced with input, advice, and assistance from the exercise planning team consisting of BP, ATC, federal, state, & local agencies; and key contractors.

The Participant Handbook provides information for the development of this exercise. This exercise will utilize the Incident Command System (ICS) management concept for BP's Spill Management Team (SMT). It is intended to improve the incident management capabilities of participants, while responding to a large scale oil spill incident in Washington.

Some exercise material is intended for the exclusive use of exercise facilitators, but players may view other materials deemed necessary to their role. The Participant Handbook may be viewed by all members of the exercise facilitation team and participants.

All exercise participants should ensure the proper control of information within their areas of expertise and protect this material in accordance with appropriate management and protection of information guidelines.

Handling Instructions

The title of this document is BP Shipping & ATC Washington State Exercise 2015 Participant Handbook.

The information included in this handbook should be handled appropriately to maintain exercise integrity.

For more information, please consult the following points of contact (POCs):

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TABLE OF CONTENTS

Training/Exercise Schedule.....	6
Exercise Scope	8
Exercise Concept	9
Estimated Exercise Timeline	10
Proposed Exercise Deliverables	11
Exercise Objectives.....	12
Exercise Scenario	13
Exercise Scenario Map	14
Assumptions, Artificialities & Out of Play.....	15
Exercise Control & Simulation.....	16
Exercise Injects	17
Exercise Truth/Control Team	18
Exercise Ground Rules	19
Incident Action Plan Software	20
Exercise Documentation	20
Exercise Participants.....	21
Exercise Planning & Design Team.....	22
Safety	23
Emergencies & Injuries	23
Exercise Debrief	24
Security, Identification & Access	25
Exercise Logistics	26
Appendix A – Incident Command Post, JIC & Hotel Map.....	27
Appendix B - Floor Plan, ICP Layout & Evacuation Routes	28
Appendix C - Resource Ordering Procedure.....	30
Appendix D - List of Acronyms	34
Appendix E - Individual Critique Form	37
Appendix F - Exercise Critique Form.....	39

Training/Exercise Schedule

Training – Tuesday 11/3/2015		
Time	Topic	Location
0630 – 0700	Breakfast & Sign-In (Badging)	ICP
MRT Training D1 & Media Training (Concurrently)		
0700 – 1200	Classroom 1 & 2	ICP
0700 – 1200	Classroom 3	Hampton Inn-Executive Meeting Room
0700 – 1200	JIC	Springhill-NW Room
1200 – 1330	Lunch (Everyone) & Political Climate (WA DOE)	ICP
1330 – 1345	Break	ICP
1345 – 1415	USCG Presentation	ICP
1415 – 1500	Washington DOE Expectations & ACP Overview	ICP
1500 – 1515	Break	ICP
1515 – 1545	Resource Tracking for Exercise	ICP
1545 – 1645	IAP/COP Training – General Overview	ICP
1645 – 1730	Exercise Briefing & Controller/Evaluator Briefing (Concurrently)	ICP
1730	Conclude Day 1	ICP

Exercise Day 1 – Wednesday 11/4/2015

Time	Topic	Location
0630 – 0730	Breakfast & Sign-In (Badging)(Everyone)	ICP
MRT Training D1 & Media Training (Concurrently)		
0730 – 1030	Classroom 1 & 2	Fox Hall
0730 – 1030	Classroom 3	Hampton Inn- Conference Room
0700	Exercise Briefing for Local Team	ICP
0800	Begin Exercise (Local Team)	ICP
1030 – 1100	Review IAP/COP specific to the exercise (MRT)	Fox Hall
1130	Exercise Briefing for MRT/Away Team	Fox Hall
1200 – 1300	Working Lunch	ICP
1300 – 1700	Exercise (Local Team & MRT Integration)	ICP
~1700	Conclude Day 1 (Hard Stop at discretion of UC)	ICP
1830	Appreciation Dinner	Fox Hall

Exercise Day 2 – Thursday 11/5/2015

Time	Topic	Location
0600 – 0700	Breakfast & Sign-In (Badging)	ICP
0700	Sit/Stat update & Continue Exercise	ICP
1200 – 1300	Working Lunch	ICP
1500	End Exercise and “Hot Wash”	ICP
1600	Dismiss Participants	ICP
1600 – 1700	Controller / Evaluator Debrief	ICP

Exercise Scope

WHERE: **Simulated Incident Location: Samish Bay**

Latitude: 48° 37' 10.05" N

Longitude: 122° 33' 50.08" W

Exercise Location – Incident Command Post (ICP):

Whatcom Unified Emergency Coordination Center

3888 Sound Way

Bellingham, WA 98226

Press Brief Site:

Fox Hall (at Hampton Inn)

1661 W. Bakerview Rd.

Bellingham, WA 98226

WHO: BP, ATC, USCG, Washington DOE, Washington DFW, Whatcom County, San Juan County, City of Bellingham, Lummi Tribe, NRC, MSRC, Global Diving & Salvage, T&T Salvage, Ed Owens Coastal Consulting, Signal Bridge Communications, IOSA, CTEH, TRG

WHAT: This exercise was developed to follow the guidance set forth in the BP Shipping Vessel Response Plan, Alaska Tanker Company Vessel Response Plan and the Northwest Area Contingency Plan.

Exercise will focus on the BP Shipping SMT functionality, public affairs, notification procedures, communications procedures & response capabilities to a tanker allision.

WHEN: November 4-5, 2015

Exercise Purpose

The purpose of this exercise is to provide participants an opportunity to perform and execute current response management concepts and plans for a simulated tanker allision in Samish Bay. The exercise will focus on command and control coordination of the simulated event and meet the criteria of the National Preparedness for Response Exercise Program (NPREP), Washington Department of Ecology, and California out of state exercise requirements.

Exercise Concept

The Exercise is a two day reactive/proactive phase command post functional exercise designed to simulate the response to a tanker allision in Samish Bay. The exercise will focus on the response capabilities of the Incident Management Team, specifically regarding communication process, operational response management, public affairs, and command and control of the incident. The incident will be managed by a Unified Command consisting of Federal, State, Local, and Tribal On-Scene Coordinators and a fully integrated Spill Management Team (SMT) with personnel from BP, ATC and numerous key contractors.

The exercise will begin on the morning of November 4, 2015 with a safety brief and situation status update. Participants will then utilize the Incident Command System to manage Unified Command driven objectives starting from ICS 201.

Following the exercise, each Command and General Staff Section will conduct a one-half hour exercise critique session to discuss the overall exercise. Following the exercise critique period, each section will assign a representative to provide three exercise strengths and three exercise areas for improvement. TRG will document the incident critique reports by section utilizing the IAP Software. See estimated exercise timeline listed below.

Estimated Exercise Timeline

Exercise (Day 1) – 11/4/15		Exercise (Day 2) – 11/5/15	
Time	Event	Time	Event
0300	Event Occurs	0600 - 0700	Breakfast & Badging
0630 - 0730	Breakfast/Badging	0700	Sit/Stat Update & Continue Exercise
0700	Exercise Briefing for Local Team	1200 - 1300	Working Lunch
0800	Begin Exercise (Local Team)	1500	End Exercise and “Hot Wash”
1030 - 1100	Review IAP/COP specific to the exercise (MRT)	1600	Dismiss Participants
1130	Exercise Briefing for MRT/Away Team	1600 - 1700	Controller / Evaluator Debrief
1200 – 1300	Working Lunch		
1300 – 1700	Exercise (Local Team & MRT Integration)		
~1700	Conclude Day 1 (Hard Stop at discretion of UC)		

***Planning Cycle Meeting Schedule (ICS 230) will be developed by the players during exercise play**

Proposed Exercise Deliverables

(Note: List below is only a sample and subject to change and modifications during the exercise and will be monitored by Truth/Control)

Proposed Exercise Deliverables for Truth/Control to Monitor (11/04 –11/05)

- Conduct ICS 201 Briefing
- Begin development of the Period 2 IAP while continuing to support current operations (Reactive Phase)
- Utilize Common Operating Picture (COP)
- Initial assessment for Firefighting
- Develop Firefighting Plan
- On Water Recovery
- Prepare & Approve Press Release
- Air Monitoring Plan
- Decanting Plan
- Site Safety Plans
- Develop SCAT Plan
- Develop Wildlife Plan
- Conduct Media Event
- Complete Dispersant Checklist
- Complete In Situ Burn Checklist

Exercise Objectives

This exercise is intended to achieve the following objectives:

Overall Exercise Objectives
1. Meet Washington DOE exercise requirements.
2. Meet California out of state exercise requirements.
3. Effectively integrate with the federal, state, local, and tribal organizations.
4. Ensure internal communication flows by following the Incident Command System (ICS Process).
5. Exercise the Northwest Area Contingency Plan (NWACP).
6. Utilize NWACP to Review Alternative Technology Processes for RRT 10 and determine if appropriate.
7. Conduct a Press Briefing.

Exercise Scenario

THIS IS AN EXERCISE!

At 0300 the freight ship "Know Nav" was inbound when it suddenly veered off course and allided with the T/V Arctic Dancer which was anchored east of Vendovi Island in Samish Bay at coordinates Lat: 48° 37' 10.05" N, Long: 122° 33' 50.08" W.

Event +1 hour Update:

The Arctic Dancer's hull has been compromised and 2 tanks are leaking ANS Crude into Samish Bay.

Exercise Scenario Map



Assumptions, Artificialities & Out of Play

In any exercise a number of assumptions and artificialities may be necessary to complete play in the time allotted. During this exercise, the following apply:

Assumptions, Artificialities & Out of Play
The scenario is plausible, and events occur as they are presented.
Incident investigation will not be exercised.
Actual Mobilization of equipment is out of play.
There is no "hidden agenda", nor any trick questions. All players receive information at the same time.
This incident is not declared a Spill of National Significance (SONS) during the exercise.
Area Command is out of play.
Multiple Incident Command Posts are out of play.
Natural Resource Damage Assessment is out of play.
Security in terms of terrorism is out of play.
MTSRU – Maritime Transportation System Recovery Unit will not be playing.
Observation results will be provided by Truth/Control during the exercise.
Claims (beyond establishing a claims number) is out of play.
Weather and oceanic conditions are simulated.
CANUS-Pac is out of play.
Salvage beyond development of a Firefighting Plan is out of play.
Exercising Vessel Transit Plan will be out of play.
Places of Refuge is out of play.
Impacts to Marine Mammals are out of play.
The alliding vessel will be out of play.
Volunteers are out of play.

Exercise Control & Simulation

Simulation during this exercise is required to compensate for non-participating organizations, individuals, and field units that would actually be deployed in a real incident.

Although simulations may detract from exercise realism, the simulated incidents, messages from and to simulated entities provide the means to facilitate exercise play and provide for the completion of exercise objectives and performance criteria:

Exercise Simulation	
All persons, agencies, response units, and higher levels of the government not participating in the exercise will be represented by the exercise control team in the truth room.	
When players determine the need to deploy, recall, or otherwise task any resources, they must follow existing procedures and contact the appropriate individual(s) on the exercise control team located in the truth room.	
As the exercise is being played in a real-time environment, the exercise facilitation team will advise the players of information such as when the resource(s) arrives on site, the situation found upon their arrival, etc.	
Controllers will provide injects to further develop the incident and provide information throughout the exercise.	
Weather and oceanic conditions will be simulated and provided upon request from the exercise control team.	
Equipment Deployment and actual response operations outside of the IMT will be simulated and provided upon request from the exercise control team.	
Any field observations regarding the movement of the spill (over flights) will be available via a visit to the Control Room which will account for operational activities such as dispersants, effectiveness of recovery operations, or exclusion booming operations.	
Key response equipment location(s) in the field will be simulated and provided upon request from the exercise control team.	
Response operations such as volumes mechanically recovered or chemically dispersed based on field operations (mass balances) will be simulated and provided upon request from the exercise control team.	
To call the field for any informational updates on actions, questions, etc. should be done through the Control Room unless otherwise directed.	
Day 1 night operations are simulated and the status will be provided upon request from the exercise control team.	

Exercise Injects

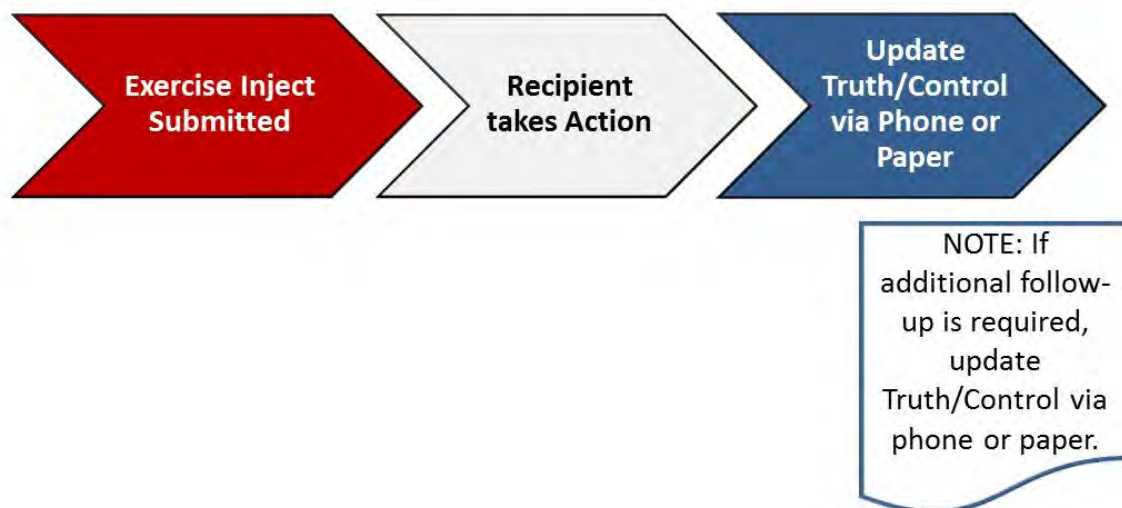
The Exercise Controllers will provide injects throughout the exercise to make the exercise realistic and exercise the whole team. Exercise Controllers will act as media, private citizens, land owners, vendors, government offices, etc. to seek answers and register concerns during the simulated spill in the form of injects. An exercise inject will be provided via paper or phone calls into the Command Post from the Truth/Control room to a specific section or position. The recipients of injects should do the following:

1. Take down the issue or information provided in the form of an inject
2. Ensure the inject is provided to the appropriate person to address the inject
3. Provide updates to Truth/Control addressing injects via phone or in person.
4. If you receive injects, please do not ignore it as they are all tracked and used in evaluation.
5. Handle injects as you would handle any other aspect of the scenario and treat controllers acting as role players as you would treat the real persons they are representing.

Exercise Truth/Control Team

Truth/Control Team	
BP Truth Lead: Ed Thompson	
Control Room Leader: Ryan Hotchkiss	
Control Room Deputy: Randy Wagner	
Inject Lead: Bill Salvin	
Vessel Master (Field): ATC – John Merrigan	
Overflights/Weather/COP - GIS – Jeff Berg	
MSRC – Denny Quirk	
USCG – Tim Lupher	
WA DOE – Linda Pilkey-Jarvis	

“Truth is always right”



Exercise Ground Rules

Exercise Ground Rules

Safety First! Participants in the exercise should take all actions that would normally be taken in an actual situation.

External calls beyond notifications will be made to truth only.

Exercise play will begin when the simulated incident is reported.

Estimated equipment and personnel deployment times shall be documented and verified by designated exercise facilitators (Truth).

All safety precautions must be implemented, as in an actual situation.

Oceanic and weather data will be simulated, unless otherwise directed by exercise facilitators.

Exercise play will end as identified in the exercise schedule.

Please note any enhancements or any changes needed to the applicable response plans.

All participants will provide documentation for all actions, contacts and telephone conversations to be turned in at the end of the exercise

In the event of a real incident, truth will call a time out and stop the exercise to brief the team

The **BP Incident Management Handbook** will be utilized for the exercise

Incident Action Plan Software

BP Shipping personnel shall use ICS forms available to them during the exercise. BP Shipping personnel with support from The Response Group shall use of the Incident Action Plan software at all levels of the emergency management organization to assist with the management and planning of the incident, and develop incident documentation.

Exercise Documentation

All personnel involved in the exercise shall submit all of their documentation to the controllers. Documentation shall include but not limited to the following:

Documentation to Submit to Documentation/Controllers	
All incident notes	
Completed ICS Forms	
Individual Log, ICS form 214a	
Requisitions and procurement paperwork	
Individual critiques	
Incident maps	

Exercise Participants

Players respond to the situation presented based on expert knowledge of response procedures, current plans and procedures, and insights derived from training.

The Incident Command System (ICS) uses the following forms for logging activities and events that occur during the incident:

- ICS 214 Individual Log
- ICS 214a Unit Log
- ICS 201-2 Summary of Current Actions (First Operational Period only)
- Incident Event Log

These forms are to be used by the IMT personnel to document response activities. Unit Logs are maintained by each Section or Command Staff Office and each organizational Unit within the Section (i.e. Branch or Unit). Unit Logs are turned into Documentation at the end of each shift.

Controllers/Facilitators provide situation updates and moderate discussions. They also provide additional information or resolve questions as required. Key planning committee members may also assist with facilitation as subject matter experts (SMEs) during the tabletop exercise. Provides the overall truth management and direction of the exercise by following the master scenario events list and providing exercise injects to control the flow of the exercise to meet overall objectives.

Observers are not participants within the exercise and will be allowed to observe exercise activities without disrupting exercise participants.

Participating ER Organizations	
BP	MSRC
ATC	Global Diving & Salvage
USCG	NRC
Washington DOE	T&T Salvage
Washington DFW	Ed Owens Coastal Consulting
City of Bellingham	CTEH
Whatcom County	Signal Bridge Communications
San Juan County	IOSA
Lummi Tribe	TRG
Canadian Coast Guard	ARAMCO
Shell	Transmarine Nav
Exxon/SeaRiver	Polar Tankers

Exercise Planning & Design Team

Exercise Planning & Design Team	
BP Shipping – Michael Baccigalopi	USCG – Tim Lupher
BP Shipping – Floyd Sanders	USCG – Tim Callister
BP Cherry Point – Scott McCreery	MSRC – Denny Quirk
BP Cherry Point – McCrae Harrison	Signal Bridge – Bill Salvin
BP – Lisa Saint	TRG – Ryan Hotchkiss
BP – Ed Thompson	TRG – Randy Wagner
ATC – Karen Hays	TRG – Lance Lindgren
Washington DOE – Howard Zorzi	

Safety

This exercise will not involve the mobilization of response equipment unless otherwise communicated prior to the kickoff of the exercise. There will not be directed equipment deployment.

- Everyone is a Safety Observer.
- Each participant is responsible for his or her individual safety.
- Everyone should receive a safety briefing upon entering the exercise.
- Site safety briefs shall be done on-site prior to any equipment testing.
- All cords must be taped down.
- Keep bags and briefcases out of walkways.
- Keep exits clear for emergency egress.
- **EVERYONE** has Stop Work Authority!

Emergencies & Injuries

For immediate emergency services: Call 911

Phone or Contact the Safety Officer or his Designee and they will arrange for emergency services.

Any actual injury/emergency will also be reported to the Command Post. Communicate the notification using the word “**Real World**”. This will indicate we are no longer in exercise play and all efforts will be focused on the emergency.

During the exercise there may be “simulated” injuries or safety events injected to drive the scenario. Simulated injuries must be prefaced and concluded with “**THIS IS AN EXERCISE – SIMULATED INJURY**”. The receiver should confirm “**UNDERSTOOD – THIS IS AN EXERCISE SIMULATED INJURY**”

Exercise Debrief

When the exercise objectives have been met, an announcement will be made that the exercise has ended. At that time, all players are to report to their designated area. Once all participants have assembled, the leader for each section will facilitate a 30-minute group discussion of: (to be captured in IAP Software for each section)

- Things that were done well and should be re-enforced,
- Areas that need improvement, and
- Recommendations or solutions to problems.

After the separate section de-briefs, the full team will be re-assembled in the ICP and a designated spokesperson from each group will briefly report back on the top 3 items their group did well during the exercise and the top 3 areas for improvement.

Participants will also be asked to provide individual feedback by completing the Individual Critique Form and Exercise Critique Form provided in Appendix E&F.

If you would like to provide additional comments after the exercise, please email the following:

BP Shipping: Michael Baccigalopi
MICHAEL.BACCIGALOPI@bp.com

BP Shipping: Floyd Sanders
Floyd.Sanders@BP.com

Alaska Tanker Company: Karen Hays
Karen.Hays@aktanker.com

The Response Group: Ryan Hotchkiss
rhotchkiss@responsegroupinc.com

Security, Identification & Access

Badging: All Exercise Participants will be provided a badge during the registration process. These badges are mandatory and will be required for entrance into the exercise play area. To obtain a badge, participants will need to check-in with the TRG Registration Desk.

Color Coded Vest:

<i>White:</i>	Command Staff Personnel
<i>Red:</i>	Operations Section Personnel
<i>Blue:</i>	Planning Section Personnel
<i>Orange:</i>	Logistics Section Personnel
<i>Green:</i>	Finance Section Personnel
<i>Brown/Black:</i>	Controllers/Evaluators/Observers

Exercise Logistics

Floor Plans & ICP Layout: See room layouts in Appendix B

Resource Request Flow Process (ICS-213 RR): All Exercise Participants will be required to follow the resource request flow process when requesting/ordering resources for the exercise. These resources can be administrative or simulated, but will need to be requested and approved through the process. If exercise is in the initial four hours of the incident, the players should rely on company policies when ordering resources and move toward an ICS 213 RR process as soon as possible. Please see the Resource Request Flow Process (ICS-213 RR) in Appendix C.

Communications:

A detailed communications plan will be provided prior to or at the start of the exercise listing the phone numbers for the Truth/Control room and Incident Command Post.

Internet Access

Internet will be provided and posted in the Incident Command Post (ICP) but will be limited to support the exercise only.

****Please do not use internet bandwidth for personal use that is not essential to the exercise.**

Phones

Will be provided at most tables in the ICP and a communications plan will be provided.

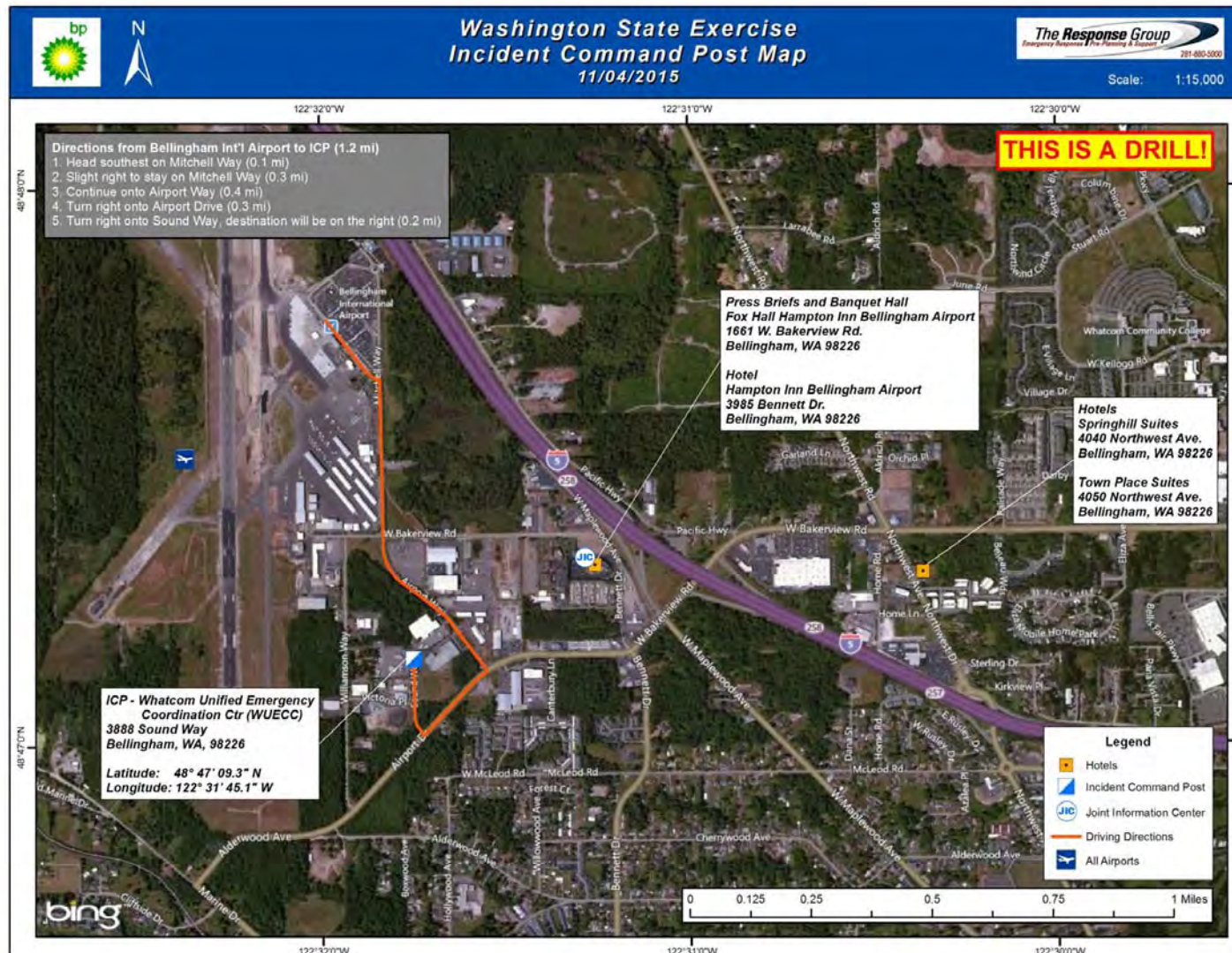
Printer/Copiers

Printers and copiers will be setup at each location during the exercise as they would be during a real event.

Computers

TRG will be providing computers for use in managing the IAP Software. Participants should use their own computers for all other activities during the exercise.

Appendix A – Incident Command Post, JIC & Hotel Map



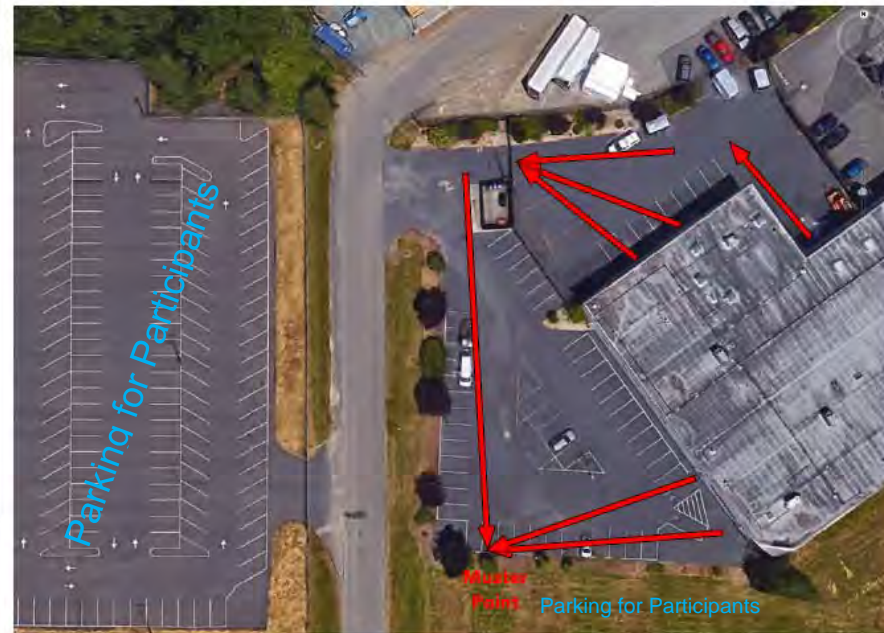
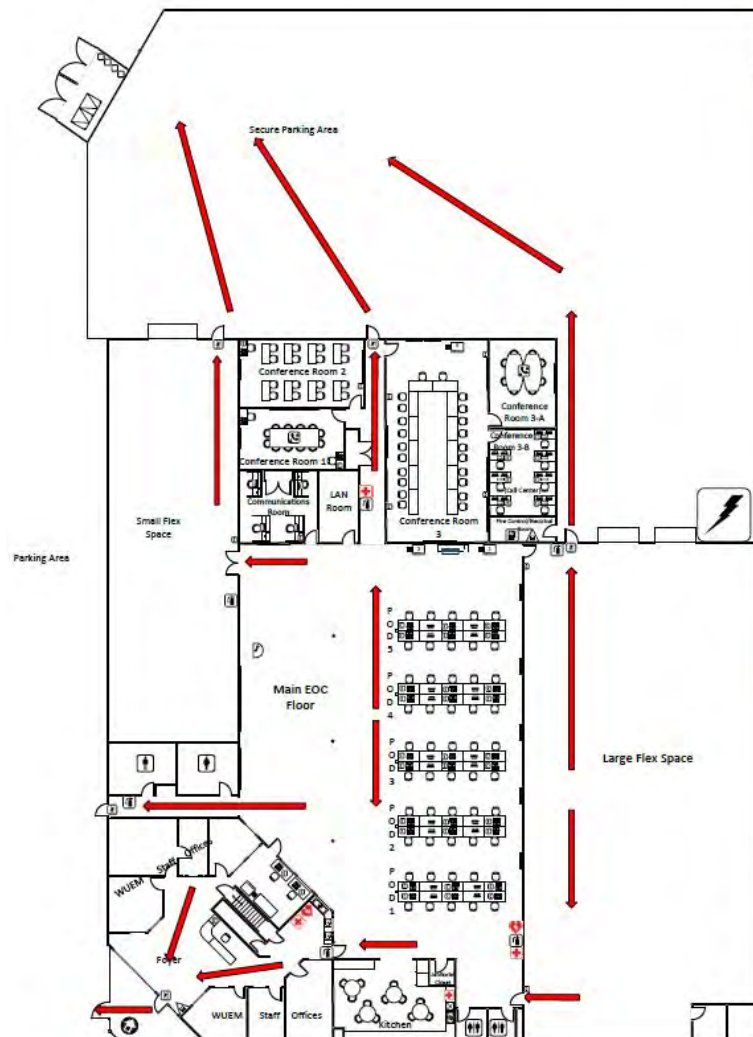
Appendix B - Floor Plan, ICP Layout & Evacuation Routes Whatcom Unified Emergency Coordination Center (WUECC)



Whatcom Unified Emergency Coordination Center
(WUECC)
3888 Sound Way, Bellingham, WA 98225
Facility Layout Diagram

Legend		
Symbol	Count	Description
	2	Teleconference Phone
	2	Universal Restroom
	51	Telephone
	2	AED Station
	4	First Aid Station
	6	Fire extinguisher
	2	Fire Alarm Control
	1	Main Electrical Breaker
	1	Men's Restroom
	1	Women's Restroom
	5	Emergency Exit
	1	Generator

WUECC EVACUATION ROUTES

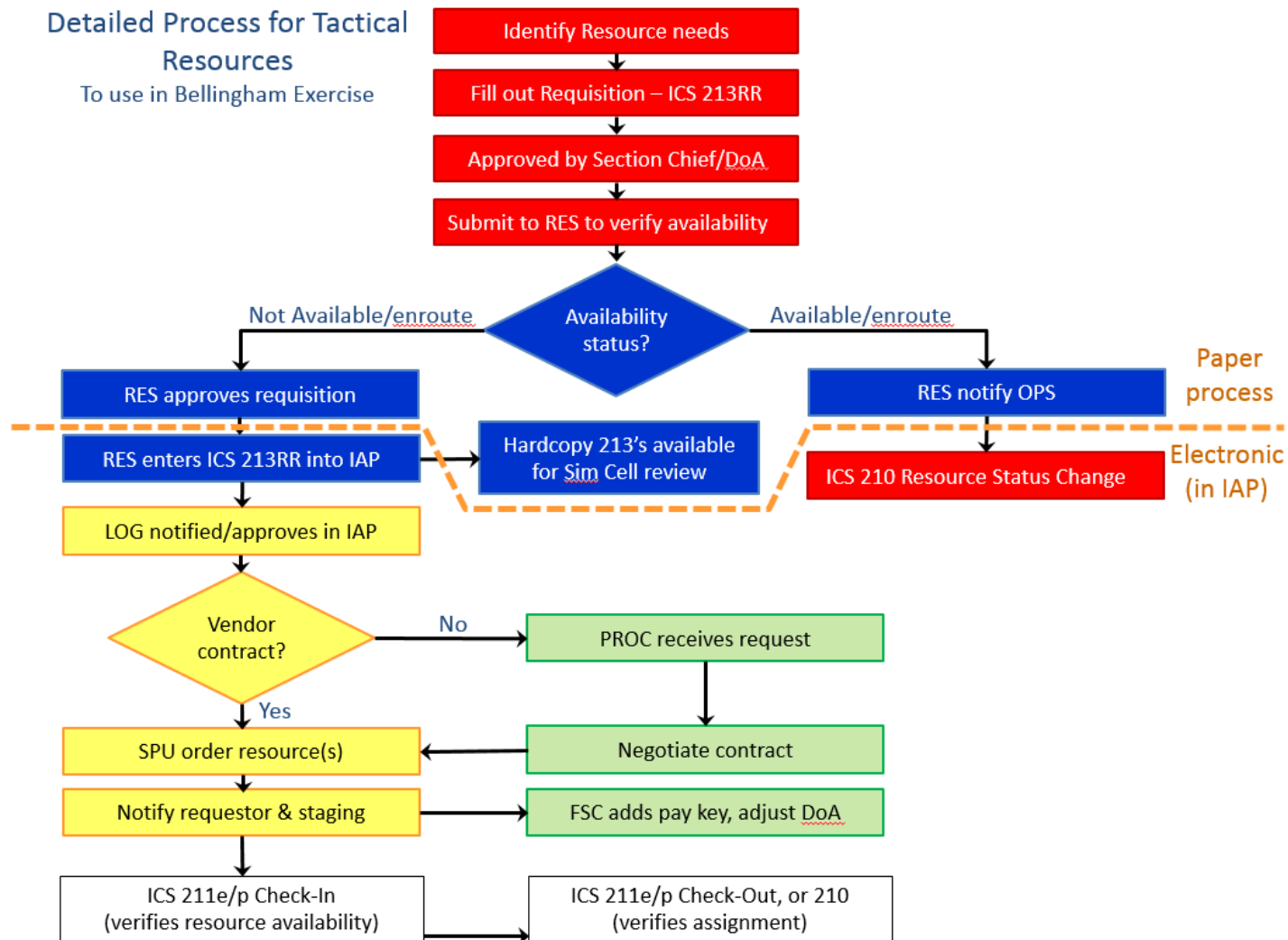


Legend

2	Teleconference Phone
2	Universal Restroom
51	Telephone
2	AED Station
4	First Aid Station
6	Fire Extinguisher
2	Fire Alarm Control
1	Main Electrical Breaker
1	Men's Restroom
1	Women's Restroom
5	Emergency Exit
1	Generator

TITLE
 Whatcom Unified Emergency Coordination Center (WUECC)
 3888 Sound Way, Bellingham, WA 98225
 Facility Layout Diagram

Appendix C - Resource Ordering Procedure



Appendix C - Resource Ordering Continued

Process for Tactical Resources - To use in Bellingham Exercise

**Ops, Safety, or other
group requesting
Tactical Resources
Resource Requested**

ICS
213RR
(paper)

All requests for resources will start out with a hand written paper ICS 213RR (single copy). Those will then be approved by the appropriate Section Chief.

Resource Unit

Available? ---->

ICS 210
(in IAP)

Not
Available? ---->

ICS
213RR
(in IAP)

For tactical request (e.g. from Operations, Planning, Safety), those 213RR's will be turned into the IAP Inbox in the Resource Unit for review and entry into the IAP Software.

- If resources are available in Staging, the Resource Unit will contact Staging (located in Truth/Sim Cell) to verify its availability. If still available, they will tell Ops to complete the ICS 210 in IAP to assign the available resource. The Resource Unit will lightly cross out that line item request on the paper 213RR and on the right side of the line write "ICS 210" to indicate that line item was fulfilled by an existing resource. If all line items are fulfilled by existing resources, the Resource Unit will write "ICS 210" in the upper right corner of the ICS 213RR.
- If resources are not available, the Resource Unit will create the electronic ICS 213RR in the IAP Software and make it ready for ordering by the Logistics Section. The Resource Unit will write the IAP Requisition number in the upper right corner of the paper ICS 213RR, "IAP #xxxx", so that people can cross reference the paper form with the electronic version. This will also serve as an indicator that the paper 213RR has been entered into the IAP Software.
- Paper copies of ICS 213 RR & ICS 210 will be placed in the Sim Cell review box in the Resource Unit.

Logistics - Supply Unit

Once the electronic 213RR is in the software, Logistics will receive "pop-up" notification. Logistics will then handle the ordering in IAP. Logistics will contact the Sim Cell to speak to vendors & complete the order.

Appendix C - Resource Ordering Continued

Process for Non-tactical Resources - To use in Bellingham Exercise

Section Requesting Non-tactical Resource Resource Requested

ICS
213RR
(paper)

Requests for non-tactical resources will start out with a hand written paper ICS 213RR (single copy). Those will then be approved by the appropriate Section Chief.

ICS
213RR
(in IAP)

For Non-tactical request (e.g. from Information, Logistics, Documentation, etc.), those 213RR's will be turned into the IAP Inbox in the Section who initiates the request for entry into the IAP Software.

- An IAP operator in the requesting Section will create the electronic ICS 213RR in the IAP Software and make it ready for ordering by the Logistics Section. The IAP operator will write the IAP Requisition number in the upper right corner of the paper ICS 213RR, "IAP #xxxx", so that people can cross reference the paper form with the electronic version. This will also serve as an indicator that the paper 213RR has been entered into the IAP Software.
- Paper copies of ICS 213 RR will be placed in the Sim Cell review box in the Logistics Section.

Logistics - Supply Unit

Once the electronic 213RR is in the software, Logistics will handle the ordering in IAP. Logistics will contact the Sim Cell (as needed) to speak to vendors & complete the order.

Appendix C - Resource Ordering Continued

Resource Status updates for all resources are to be based on the following standard definitions:

Available: Ready for assignment and has been issued all required equipment.

Assigned: Resource is currently being utilized and is not available for work elsewhere.

Enroute/Sourced: Resource has been procured by logistics and is either being prepared by the source company or is already on the way to the site.

Out of Service: Resource is currently unable to be used for work, possibly due to maintenance, damage or contamination.

Demobilized: Resource has been removed from use in the response.

Appendix D - List of Acronyms

AAR/IP	After Action Report/Improvement Plan
ACP	Area Contingency Plan
AMPOL	American Pollution Control
API	American Petroleum Institute
AREP	Agency Representative
ASTM	American Society for Testing and Materials
ATV	All-Terrain Vehicle
ATC	Alaskan Tanker Company
bbl.	Barrel(s)
BLM	U.S. Dept. of Interior, Bureau of Land Management
BMPs	Best Management Practice
BOEM	Bureau of Ocean Energy Management
BP-CP	BP Cherry Point
BPS	BP Shipping
BSEE	Bureau of Safety and Environmental Enforcement
CBP	U.S. Customs and Border Protection
CFR	Code of Federal Regulations
COML	Communications Unit Leader
COP	Common Operating Picture
COTP	Captain of the Port
DIC	Deputy Incident Commander
DHS	U.S. Department of Homeland Security
DMORT	Disaster Mortuary Operational Response Team
DPIC	Deputy Incident Commander
DPRO	Display Processor
DOCL	Documentation Unit Leader
DOE	Department of Ecology
DOSC	Deputy Operations Section Chief
DoD	Department of Defense
DOT	U.S. Department of Transportation
EMS	Emergency Medical Services
ENVL	Environmental Unit Leader
EOC	Emergency Operations Center
EPA	U.S. Environmental Protection Agency
ESF	Emergency Support Function
ESG	Emergency Support Group
EXPlan	Exercise Plan
FAA	Federal Aviation Administration
FACL	Facilities Unit Leader
FBI	Federal Bureau of Investigation
FEMA	Federal Emergency Management Agency
FOB	Forward Operating Base

FOIA	Freedom of Information Act
FOSC	Federal On-Scene Coordinator
FSC	Finance/Administration Section Chief
GIS	Geographic Information System
GPS	Global Positioning System
GRP	Geographic Response Plan
HazCom	Hazardous Communication
HazMat	Hazardous Materials
Hazwoper	Hazardous Waste Operations and Emergency Response
HQ	Headquarters
HSEEP	Homeland Security Exercise and Evaluation Program
IAP	Incident Action Plan
IC	Incident Commander
ICP	Incident Command Post
ICS	Incident Command System
IMT	Incident Management Team
ISB	In-Situ Burn
IST	Incident Support Team (Urban Search and Rescue)
JFO	Joint Field Office
JIC	Joint Information Center
JOC	Joint Operations Center
LEL	Lower Explosive Limit
LNO	Liaison Officer
LSC	Logistics Section Chief
MAA	Mutual-aid Agreement
MAC	Multi-Agency Coordination
MARSEC	Maritime Security
MCI	Mass Casualty Incident
MEDL	Medical Unit Leader
MOA	Memorandum of Agreement
MOU	Memorandum of Understanding
MRT	Mutual Response Team
MSRC	Marine Spill Response Corporation
NEBA	Net Environment Benefit Analysis
NCP	National Contingency Plan
NDMS	National Disaster Medical System
NGO	Non-Governmental Organization
NIMS	National Incident Management System
NOAA	National Oceanic and Atmospheric Administration
NPFC	National Pollution Funds Center
NRC	National Response Corporation
NRC	National Response Center
NRP	National Response Plan
NPREP	National Preparedness for Response Exercise Program
NTSB	National Transportation Safety Board

OP	Operational Period
OPBD	Operations Branch Director
OPA 90	Oil Pollution Act of 1990
OSC	Operations Section Chief
OSHA	Occupational Safety and Health Administration
OSRO	Oil Spill Removal Organization
OSRP	Oil Spill Response Plan
PIC	Person in Charge
PIO	Public Information Officer
POC	Point of Contact
PPE	Personal Protective Equipment
PROC	Procurement Unit Leader
PSC	Planning Section Chief
QI	Qualified Individual
RCRA	Resource Conservation and Recovery Act
RESL	Resource Unit Leader
RP	Responsible Party
RRT	Regional Response Team
SAR	Search and Rescue
SCAT	Shoreline Cleanup Assessment Techniques
SCKN	Status/Check-in Recorder
SDS	Safety Data Sheet
SHPO	State Historic Preservation Officer
SITL	Situation Unit Leader
SMC	Search and Rescue Mission Coordinator
SME	Subject matter expert
SOFR	Safety Officer
SONS	Spill of National Significance
SOP	Standard Operating Procedure
SOSC	State On-Scene Coordinator
SPUL	Supply Unit Leader
SRU	Search and Rescue Response Unit
SSI	Sensitive Security Information
SSC	Scientific Support Coordinator
STAM	Staging Area Manager
TRG	The Response Group
TTX	Tabletop exercise
UC	Unified Command
USN	United States Navy
USCG	United States Coast Guard
USFWS	U.S. Fish and Wildlife Service
VOSS	Vessel of Opportunity Skimming System
VOAD	Volunteer Originations Active in Disasters
WCD	Worst Case Discharge
WRP	Wildlife Response Plan

Considerations, Costs, and Funding Sources for Developing Tribal Oil Spill Response Capabilities – The Lummi Nation Experience



Lummi Natural Resources Department
Lisa Cook, Water Resources Technician III

Northwest Indian Fisheries Commission
Lummi Nation Silver Reef Hotel, Casino & Spa
December 8, 2015

Purpose Statement



- The purpose of this presentation is to provide information about developing tribal oil spill response capabilities based on the Lummi Nation experience including:
 - Considerations;
 - Staff training;
 - Lummi's oil spill response equipment;
 - Lummi's oil spill response equipment costs and funding sources;
 - Programmatic Actions.

Considerations



Why Did the Lummi Nation Develop an Oil Spill Response Program?

Lummi is a Fishing Tribe



Treaty Rights to a Commercial, Ceremonial, and Subsistence Harvest

Lummi is a Fishing Tribe



Harvests require access to fishing grounds and stations that are not contaminated with toxic substances

Reservation Location



- Proximity to Cherry Point Heavy Impact Industrial Zone
- Proximity to Georgia Strait, Puget Sound, Bellingham Bay, Shipping Lanes, and Anchorages
- Proximity to Anacortes/March Point Refineries



Off-Reservation Spill Sources



- Two Petroleum Oil Refineries
 - Crude oil and products by tanker, barge, pipeline, and train; products such as gasoline, jet fuel, diesel, heating oil, propane, butane; process materials such as sulfuric acid, sodium hypochlorite, hydrofluoric acid
- Aluminum plant
 - Alumina, chlorine, sulfuric acid, diesel, gasoline, sodium hydroxide
- Cogeneration facility
 - Natural gas, anhydrous ammonia, sulfuric acid, diesel

On-Reservation Spill Sources



- Boat launch and boat storage
 - Gasoline and diesel, vessel sinkings
- Gas stations
 - Gasoline, diesel, propane
- Marina
 - Oil and fuel spills
- Sewage spills
- Roads
- Construction sites



Important Considerations



- Oil spill response does not happen in a vacuum – need to integrate with other response agencies, organizations, and industry
- Training and equipment are needed to increase the likelihood of a safe and effective response to an oil spill:
 - Participate in oil spill table top exercises – contact local refineries for invitation or see Northwest Area Contingency Plan for drill calendar (<http://www.rtt10nwac.com/nwacp/>).
 - Ensure spill response equipment is compatible with equipment used by other response organizations and practice deployments.

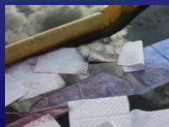
Staff Training Efforts



Training Goals



- Establish a Lummi Spill Response Team
 - LNR, Law Enforcement, and LNTHPO staff plus fishers
 - HAZMAT training
 - Focus on response training
 - Policy and technical staff support
 - 24/7 availability
 - Able to work in shifts for long time scale response efforts (i.e., 24 hours, 3+ days)



Training Focus



- Provide training to ensure a safe and effective response:
 - OSHA training – awareness, operations technician, specialist, general site
 - Incident Command System (ICS) focus
 - Unified Command
 - Planning Section
 - Operations Section
 - “Table Top” spill drills (Establish relations, ICS proficiency)
 - Boom deployment drills to practice and test the GRPs
 - Emergency Management training – FEMA, WA EMD
 - Recovery documentation and preparation - FEMA





Lummi Oil Spill Response Equipment

Lummi Oil Spill Response Equipment



- Equipment Includes:
 - Spill Response Boats
 - LNR has a 26 foot "Responder" and 16 foot skiff
 - Lummi Police have three boats
 - Boom Trailer that holds 1,200 ft of 8" x 12" boom
 - Boom (1,500 feet) and Tow Bridles (6 units)
 - Boom Anchor Systems (four 22 lb; four 40 lb anchors and buoys)



Lummi Oil Spill Response Equipment



- Equipment (Continued):
 - Spill kits
 - Oil snares and oil sweeps
 - Sorbent pads and boom
 - Personal Protective Equipment
 - Communication – radios, cell phones
 - 5 hp Pump
 - Flashlights
- Equipment is included in the Western Response Resource List (WRRL)

Lummi Oil Spill Response Equipment Costs and Funding Sources



Lummi Oil Spill Response Equipment Costs



Estimated Lummi Oil Spill Response Equipment Costs and Funding Sources:

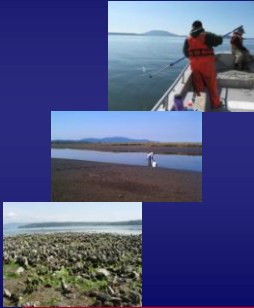
Items	Costs	Funding Source
16 ft HarborCraft Boat, 30 HP outboard (2000)	\$10,000	EPA Section 104
8' x 20' Storage Container (2004)	\$3,000	EPA - GAP
1,500 feet of boom (2004)	\$10,725	EPA - GAP
Tow Bridles/Anchors (2004)	\$3,100	EPA - GAP
Nine (9) Spill Kits (2004)	\$1,100	EPA - GAP
Sorbent Sweeps/Snares/Pads/Booms (2004)	\$1,300	EPA - GAP
Tools/gloves/rain gear/disposal bags/fence posts/PPDs (2004)	\$2,500	EPA - GAP
Delivery Charges (2004)	\$2,100	EPA - GAP
Boom Trailer (2005)	\$5,000	EPA - GAP
5 HP Pump (2005)	\$500	EPA - GAP
26 ft Responder Boat/Motor/Trailer (2006)	\$35,000	EPA - GAP
Sorbent Sweeps/Snares/Pads/Booms; PPE Gear Bags (2006)	\$4,200	Ecology Oil Spill Response Equip Grant
TOTAL DIRECT CHARGES:	\$78,525	
INDIRECT CHARGES	\$21,475	
TOTAL COSTS	\$100,000	

- Most expensive pieces of equipment are the boats – costs, including annual maintenance, offset by water quality sampling program.
- Prices shown are now 10 years old.
- Effort "kick-started" with a FY03 Special Projects GAP Grant for \$35,992

Oil Spill Response Related Programmatic Actions



Programmatic Actions



- Tribal Land Use Permitting
 - Storm Water Management – Pollution Prevention Plans
 - Spill response conditions incorporated in permits
- Water Quality Monitoring
 - Ambient monitoring program
 - Spill response sampling
- Clam Surveys
 - Tideland resources

18

Programmatic Actions



- Lummi Inter-tidal Baseline Inventory (2010)
 - Pre-disaster ecological assessment of Reservation tidelands
- Six Surveys
 - Topographic
 - Inter-tidal biota
 - Large bivalve
 - Finfish
 - Shorebird and marine mammal
 - Petroleum toxicity baseline
- Over 242 separate taxa documented

19

Programmatic Actions

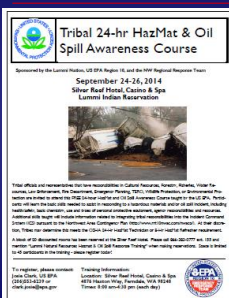


- Participation in the scoping and review of the vessel traffic safety study conducted for the proposed GPT and Kinder-Morgan projects in particular but also the three other studies being conducted.
 - Contracted technical expert

21

Current Program Development Focus

Current Program Development Focus



- Increase participation of LNR, Police, and LNTPO staff in Industry-sponsored and LNR sponsored spill drills
- Increase participation of staff from other tribal governments in Industry-sponsored spill drills
- Update the 2005 Lummi Nation Spill Prevention and Response Plan

22

Summary and Conclusion



Summary and Conclusions



- A major oil spill could potentially destroy the environment and associated natural resources that the Lummi People have relied on since time immemorial for commercial, ceremonial, and subsistence purposes.
- The Lummi Nation has been developing its oil spill prevention and response capabilities since the mid-1990s in order to minimize the risk of a spill and to help ensure a safe and effective response in the event of a spill.

Summary and Conclusions



- This effort has included:
 - Programmatic actions to prevent spills from occurring in the first place;
 - Providing training, acquiring equipment, and participating in both table top and boom deployment oil spill drills to increase the chances of achieving or supporting a safe and effective response to small and large oil spills;
 - Encouraging other tribal governments to develop spill response capabilities including by participating in industry-sponsored spill drills.

Questions?



Lisa Cook
Water Resources Technician III
Lummi Natural Resources Department
(360) 312-2324
lisac@lummi-nsn.gov

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MEMORANDUM

DATE: February 12, 2015

TO: Jeremy Freimund, P.H., Water Resources Manager

FROM: Lisa Cook, Water Resources Technician III

SUBJECT: **Illegal Dumping: Clean-up of Fluorescent Tubes at Cagey Road and Haxton Way on the Lummi Indian Reservation**

As you know, on January 28, 2015 you were notified by Ralph Long, Lummi Nation Chief of Police, relaying information received from Linsay Albin with the Department of Ecology Bellingham Field Office at 10:17 AM regarding the report of approximately 75 cylinder fluorescent light bulbs dumped on private property at the southwest corner of Haxton Way and Cagey Road on the Lummi Indian Reservation. The property is owned by Bob Doucette, however, the source of the dumping was unknown. You requested that Jamie Mattson, Hanna Winter and I of the Lummi Water Resources Division respond to assess and document the dumping, clean up the light bulbs, prevent further breakage of bulbs, and deliver them to the hazardous waste disposal facility in Bellingham, WA. Fluorescent light bulbs must be disposed of at a hazardous waste disposal facility because they contain mercury, a toxic material.

Jamie Mattson, Hanna Winter, and I responded to the dumping of the fluorescent light bulbs on January 28, 2015 at 10:30 AM. Upon arrival at the property at approximately 10:45 AM, we located the pile of light bulbs in question, assessed the extent of the dumping, and attempted to determine the source of the dumping. There was a pile of broken and unbroken bulbs behind a log on the edge of the property near the road and a few bulbs scattered around the property. The bulbs were approximately 7 feet in length. See Figures 1-3 for photos of the fluorescent bulbs. We double-bagged the unbroken and large pieces of broken bulbs. Smaller pieces of broken glass were cleaned up and double-bagged using a shovel and rake. See Figure 4 for a photo of the bagged materials. The double-bagged waste was delivered to Disposal of Toxics, a hazardous waste transfer station in Bellingham, WA, for disposal at approximately 1:00 PM on January 28, 2015.



Figure 1. Pile of broken and un-broken fluorescent light bulbs



Figure 2. Fluorescent light bulbs were approximately 7 feet in length



Figure 3. Fluorescent light bulbs throughout the property



Figure 4. After clean-up, bagged light bulbs were taken to the hazardous waste disposal site



MEMORANDUM

DATE: June 29, 2015

TO: Jeremy Freimund, P.H., Water Resources Manager

FROM: Lisa Cook, Water Resources Technician III

SUBJECT: Oil Sheen at SW003, Jordan Creek at North Red River Road

On June 3, 2015 at 9:30 am while conducting surface water quality monitoring for Floodplain West, Hanna Winter and I noticed a sheen on the water at site SW003, Jordan Creek upstream of the confluence with the North Lummi River distributary, located on North Red River Road west of Hillaire Road (see Figures 1 and 2). We placed sorbent boom down for precautionary measures. We placed two sections of sorbent boom across the water in front of the culvert and tied off each side to the bank (see Figure 3 and 4).

Jamie Mattson and I returned to the site on June 15, 2015 to remove the sorbent boom (see Figures 5 and 6). We dismantled the boom and did not observe any sheen or oil coloring at the site or on the boom. The material at the site appeared to be pollen, sediment, and/or algae. We determined that the boom did not contain oil or petroleum product, and discarded the boom in a dumpster.



Figure 1. Water sheen upon arrival



Figure 2. Water sheen before booming



Figure 3. Boomed off site



Figure 4. Containment boom erected



Figure 5. Site before dismantling boom



Figure 6. Boom after clean-up



MEMORANDUM

DATE: July 9, 2015
TO: Jeremy Freimund, Water Resources Manager
FROM: Kara Kuhlman, Natural Resources Analyst
SUBJECT: 4594 Decatur Drive Oil Drum Spill

On July 8, 2015 at approximately 12:30 pm, you (Jeremy Freimund, Water Resources Manager) received notification from Carl Anderson at the Washington State Department of Ecology (Ecology) of a reported oil spill near the residence of 4598 Decatur Drive (likely reported by the residents of this address). You requested Hanna Winter (Water Resources Specialist I) and myself, Kara Kuhlman (Natural Resources Analyst), respond to assess and document the spill and assist in the cleanup as necessary.

Hanna and I arrived on-site at 1:30 pm and promptly identified the site of the spill, located at 4594 Decatur Drive, where construction is currently underway for the installation of a double-wide manufactured home. Two construction contractors were present and were willing to discuss the spill. The contractors stated that while clearing the lot of vegetation, they had found three 50-gallon metal drums near the southeast corner of the property; only one of the drums was full, the other two were empty. There was some dispute as to the original location of the drums, whether or not they had been moved, and what had caused the spill, with the contractors and the caller who had reported the spill to Ecology offering different accounts. We attempted to contact the residents of 4598 Decatur Drive but they were not home.

Prior to our arrival, the contractors had loaded the two empty drums onto a trailer for disposal (Figure 1) and the other barrel had been left at the site of the spill (Figure 2-4). The spill was approximately two feet in diameter and was located immediate adjunct to the drum, which was still approximately 75 percent full. The spilled product could not be identified but may have been used motor oil. Hanna and I placed two absorbent pads over the oiled ground surface. I contacted you with an update at 1:40 pm and we determined that no further assistance was required, but that the property owner should be contacted to ensure that the drum, contents, and absorbent pads be properly disposed of at a toxic waste disposal facility. Instructions for proper disposal were also provided to the contractors.

Land use permit applicant (provided by contractors):

Jess Kenoyer
1725 St. Paul Lane
Bellingham, WA 98229



Figure 1. Two empty drums loaded for disposal



Figure 2. Spill site located at southeast corner of property



Figure 3. Source of spill – drum approximately 75 percent full



Figure 4. Spilled product – approximately two feet in diameter



MEMORANDUM

DATE: July 21, 2015

TO: Jeremy Freimund, P.H., Water Resources Manager

FROM: Lisa Cook, Water Resources Technician III

SUBJECT: Oil Sheen Along Shore at Flood Gates on Marine Drive (SW072)

On July 15, 2015 at 10:30 am while conducting surface water quality monitoring for Floodplain, Hanna Winter (Water Resources Specialist I) and I (Water Technician III) discovered a small sheen of oil approximately two feet in diameter at SW072 (Figure 1). Site SW072 is located along Marine Drive at the flood gates just west of the bridge over Smuggler's Slough. The source of the sheen was undetermined. We placed two sheets of absorbent pads over the sheen (Figure 2).

We returned to site SW072 on July 20, 2015 at 14:00 to retrieve the absorbent pads. The water level at the site had lowered, and the pads had dried out. Only a small amount of the sheen was still visible, and a brown, oily residue appeared to have been absorbed by the pads. The pads were delivered to Disposal of Toxics, who informed us that the pads could be disposed of in the regular garbage because they were no longer wet. The absorbent pads were disposed of in the LIBC dumpster.



Figure 1. SW072 oil sheen 10:30 am Wednesday July 15, 2015



Figure 2. Absorbent pads place over the sheen.



MEMORANDUM

DATE: August 17, 2015

TO: Jeremy Freimund, Water Resources Manager

FROM: Kara Kuhlman, Natural Resources Analyst

SUBJECT: Oil Spill Reportedly from Lummi Purse Seine Fishing Vessel in Squalicum Harbor

On August 7, 2015 at approximately 9:15 am, I (Kara Kuhlman, Natural Resources Analyst) received a call from Carl Anderson at the Washington State Department of Ecology of a reported diesel fuel spill observed around a Lummi tribal member owned purse seine fishing vessel moored at Squalicum Harbor. The spill had reportedly occurred two days earlier, on the evening of August 5, 2015, and the Harbormaster had subsequently been contacted. Carl stated that he had been out of the office at the time of the spill, but wanted to relay information regarding the spill to the Lummi Nation Spill Response Team for their documentation. Although spill cleanup had already been conducted, Carl suggested that the Spill Team may want to contact the vessel owner/operator, Galen Lane, to provide spill education and outreach. I consulted with Victor Johnson (Natural Resources Specialist I) and Frank Lawrence III (Natural Resources Specialist I) and we determined that inspecting the site and establishing contact with Mr. Lane was necessary. I arrived at Squalicum Harbor at approximately 10:15 am and promptly searched the commercial moorage area (Gate 5) for the vessel registered to Mr. Lane (the *Salish Star*) in the Lummi Nation Harvest Management Database. The *Salish Star* was not in port and there was no visible evidence of the spill (i.e., no sheen) remaining. Upon returning to the office, it was determined that Mr. Lane operates another purse seiner (the *Lummi Boy*), which is registered to Vernon Lane (now deceased), that may have been the source of the spill. Regardless of which vessel was involved, Lummi Spill Team members will follow-up with Mr. Lane at their earliest convenience.

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MEMORANDUM

DATE: October 19, 2015

TO: Jeremy Freimund, Water Resources Manager

FROM: Kara Kuhlman, Natural Resources Analyst

SUBJECT: ERTS 660010 – Unknown Odor from Soil, Robertson Road

On October 13, 2015, Jamie Mattson (Water Resources Specialist II) and myself (Kara Kuhlman, Natural Resources Analyst) responded to the complaint of an unknown odor filed by a property owner along Robertson Road (see ERTS 660010). Jamie and I visited the site at approximately 9:30 am that morning and found the driveway gate to be closed. We attempted to contact the complainant (Adam Karp) by phone, but were unable to reach him directly – we left a message with his secretary. The alleged odor was not detectable from the driveway. We then returned to the office to await a return call. Jamie and Adam exchanged voicemails over the next few hours, but were unable to speak directly. Generally, Adam expressed interest and appreciation for the Lummi Natural Resources involvement.

That afternoon, Jennifer Hayden (Department of Health) contacted Jamie by phone to relay that a site visit had been scheduled with Adam's wife (Kim) for 1:30 pm the same day and asked if LNR staff would be able and willing to attend – which we were. Jamie and I met with Kim and Jennifer as scheduled. Kim had previously taken two soil samples from the affected area that she offered to let us smell. There was a definite chemical smell and throat irritating quality to the samples. Kim stated that the odor has been present for about two months, that she and Adam had not undertaken any activities that could have resulted in the odor, and that was no visible contamination atop the soil surface when the odor appeared. The affected area is along the southern border of the property between the complainants house and the neighbors hedge (Figure 1). Adjacent to the south side of Kim and Adam's house is a fully enclosed, fenced cat run, much like a chicken run. When we visited this area the chemical odor was noticeable. Kim stated that she had spoken to the neighbors sharing the property line to the south and that they had not conducted any activities that could have caused the odor. Kim did express concern of potential foul play (i.e., illegal dumping) from the neighbors to the north who have a history of trespass and harassment against Kim and Adam.

Concluding the visit, Jennifer took one of the soil samples for potential lab analysis and stated that she would be developing a report for the Department of Ecology pursuant to the Department of Health's

contract with Ecology. Jennifer also suggested that the best way to dispose of potentially contaminated detritus, which had been raked into a pile toward the shoreline (Figure 2), should the owners choose to do so in the near-term, would be to put it in a plastic bag and take it to the dump. We offered to remain available for further assistance as needed.



Figure 1. Southern property boundary of 3407 Robertson Road looking east, odor was detectable in this area.



Figure 2. Raked soil, leaves, and other detritus from southern property line, looking west toward the shoreline.

Department of Ecology - Environmental Report Tracking System

ERTS # 660010

Initial Report

External Reference #

Caller Information

First Name ADAM Last Name KARP
 Business Name
 Street Address 114 W MAGNOLIA ST
 Other Address STE 425
 City BELLINGHAM State WA Zip 98225
 E-mail ADAM@ANIMAL-LAWYER.COM Confidential_FL ☐
 Phone (360) 738-7273 Ext Type Business

Where did it happen

Berth Anchorage
 Location Name
 Street Address 3407 ROBERTSON RD
 Other Address
 City/Place BELLINGHAM State WA Zip 98226
 County - Region WHATCOM NWRO FS ID
 WIRA # WRIA 1 - Nooksack Watershed
 Waterway Type
 Latitude Longitude
 Topo Quad 1:24:000 BELLINGHAM NORTH
 Direction/Landmark (mile post, cross roads, township/range)
 SITE IS OWNED BY THE LUMMI TRIBE

What happened

Spills Program Oil Spill? N
 Incident Date 8/20/2015 Received Date 10/12/2015 9:11
 Medium SOIL
 Material CHEMICAL
 Quantity Unit
 Source UNKNOWN
 Cause UNKNOWN
 Activity UNKNOWN
 Impact SOIL CONTAMINATION
 Vessel Name
 Hull Number

Primary Potentially Responsible Party Information

First Name U Last UNKNOWN
 Business Name
 Street Address
 Other Address
 City State WA Zip
 Phone Ext Type
 E-mail

Additional Contact Information

Name Phone Ext Type

More Information

The following complaint was forwarded to Ecology by Whatcom Dept. of Health:

WSU Extension recommended I contact you concerning an unknown odor emanating from the edge of our premises. It began in mid-to-late August 2015 and has continued to this day. The odor smells synthetic/chemical, not natural, and in over a decade of living here, my wife and I have never smelled it [before].

When the wind whips up, [we] smell it on our back deck almost every day. Visually, I found no obvious source so suspect that it is a noxious chemical sprayed or dumped on our premises without our knowledge or consent. The odor emanates from an area of laurel bushes with fallen leaves and other detritus, as well as a big swath of wild rose bushes, though, as I noted above, we have never smelled this odor from those areas.

Our neighbors who live on the opposite side of the fence state they have not sprayed or used any rodenticides, fungicides, or pesticides.

The smell goes into my wife's throat and chest and produces an instant sore throat/respiratory irritation and dizziness. Sometimes her nose suddenly become runny or congested. She could almost taste it -- chemical compound in nature. Despite repeated rains and sun exposure, the smell does not dissipate.

I collected some soil and captured it in a container. The odor is captured therein. I can bring it by to your office, unless you could send someone out to investigate this potential health hazard.

We would very much appreciate your assistance. We live in the county.

NOTE: Original email stored at X:\NWRO ERTS\ERTS Incident Additional Info\2015\660010

Department of Ecology - Environmental Report Tracking System

ERTS # 660010

From: Albin, Linsay (ECY) [mailto:LALB461@ECY.WA.GOV]
Sent: Monday, October 12, 2015 12:39 PM
To: adam@animal-lawyer.com
Subject: re: Recurring unknown odor presenting potential health risk -inspection requested

Good afternoon:

Jeff Hegedus at the Whatcom County Health Department forwarded your email to the Department of Ecology .

I am entering your complaint into Ecology's ERTS database (Environmental Report Tracking System) for referral to any agencies who have jurisdiction over both the issue and your area.

I have a couple of quick notes:

Is the soil contamination and aroma affecting your property at 114 W Magnolia, or is it at your home in the county? If it is your home in the county, please provide the address.

I assume the paragraph at the bottom of your email regarding confidential information is part of a template and does not apply to your complaint. Correct me if I am wrong, as that may affect how I handle your complaint.

Thank you,

Linsay Albin
Admin Asst
Dept of Ecology
Bellingham Field Office

+++++

From: Adam P. Karp [mailto:adam@animal-lawyer.com]
Sent: Monday, October 12, 2015 12:41 PM
To: Albin, Linsay (ECY) <LALB461@ECY.WA.GOV>
Cc: 'Henryreporting' <henryreporting@aol.com>; Adam Karp <adam@animal-lawyer.com>
Subject: RE: Recurring unknown odor presenting potential health risk -inspection requested

Hi Ms. Albin,

Address is 3407 Robertson Rd., in County. I believe WCDH is going to be in touch with my wife Kim to send out an investigator?

And, correct, just a template and inapplicable to our communications.

Animal Law Offices of Adam P. Karp
Licensed in Washington, Oregon, and Idaho
114 W. Magnolia St., Ste. 425
Bellingham, WA 98225
(360) 738-7273

+++++

From: Adam P. Karp [mailto:adam@animal-lawyer.com]
Sent: Monday, October 12, 2015 3:22 PM
To: Albin, Linsay (ECY) <LALB461@ECY.WA.GOV>
Cc: 'Jeff Hegedus' <jhegedus@co.whatcom.wa.us>; Adam Karp <adam@animal-lawyer.com>
Subject: RE: Recurring unknown odor presenting potential health risk-inspection requested

An investigator from WCHD is coming out tomorrow. We are on fee land within tribal boundaries, but it is county. Thanks though!

Animal Law Offices of Adam P. Karp
Licensed in Washington, Oregon, and Idaho
114 W. Magnolia St., Ste. 425
Bellingham, WA 98225
(360) 738-7273
Outside Bellingham: (888) 430-0001
Fax: (866) 652-3832
Web: www.animal-lawyer.com
Email: adam@animal-lawyer.com

Entry Person ALBIN, LINSAY

Entry Date 10/12/2015

Department of Ecology - Environmental Report Tracking System

ERTS # 660010

Referral

Referral Method <input type="radio"/> E-mail ERTS number <input checked="" type="radio"/> E-mail attachment <input type="radio"/> Print <input type="radio"/> Telephone	Person Referred to LUMMI NATION, FREIMUND JEREMY Phone (360) 312-2314 Fax (360) 384-4737 E-mail jeremyf@lummi-nsn.gov Program/Organization LUMMI NATION Address 2665 KWINA RD City BELLINGHAM WA 98226-9298 Region/Location NWRO Referral Date 10/12/2015	Referral # 199493 Primary <input type="checkbox"/>
Referral Method <input type="radio"/> E-mail ERTS number <input checked="" type="radio"/> E-mail attachment <input type="radio"/> Print <input type="radio"/> Telephone	Person Referred to EPA, ALL ERTS REFERALLS Phone (206) 553-1983 Fax E-mail EMAIL EPA CONTACTS Program/Organization EMAIL REGION 10 - EPA ERTS REFERRALS Address City SEATTLE WA Region/Location NWRO Referral Date 10/12/2015	Referral # 199494 Primary <input type="checkbox"/>
Referral Method <input type="radio"/> E-mail ERTS number <input checked="" type="radio"/> E-mail attachment <input type="radio"/> Print <input type="radio"/> Telephone	Person Referred to EPA - TRIBAL CALLS, CHAE PARK Phone (206) 553-1846 Fax E-mail Park.Chae@epamail.epa.gov Program/Organization EPA Address City WA Region/Location NWRO Referral Date 10/12/2015	Referral # 199495 Primary <input type="checkbox"/>
Referral Method <input type="radio"/> E-mail ERTS number <input checked="" type="radio"/> E-mail attachment <input type="radio"/> Print <input type="radio"/> Telephone	Person Referred to MUSA TCP, DONNA Phone (425) 649-7136 Fax (425) 649-7098 E-mail DMUS461@ECY.WA.GOV Program/Organization TOXICS CLEANUP Address 3190 160th AVE SE City Bellevue WA 98008-5452 Region/Location NWRO Referral Date 10/12/2015	Referral # 199516 Primary <input type="checkbox"/>

Department of Ecology - Environmental Report Tracking System

ERTS # 660010

Referral Method	Person Referred to WHATCOM CO HEALTH, (ERTS REFERRALS)	Referral # 199517
<input type="radio"/> E-mail ERTS number	Phone (360) 676-6724 Fax 360-676-7646	Primary <input type="checkbox"/>
<input checked="" type="radio"/> E-mail attachment	E-mail EnvironmentalHealth@co.whatcom.wa.us	
<input type="radio"/> Print	Program/Organization WHATCOM COUNTY	
<input type="radio"/> Telephone	Address 509 Girard Street	
	City Bellingham WA 98225	
	Region/Location HEALTH	
	Referral Date 10/12/2015	

Followup (None)



MEMORANDUM

DATE: November 16, 2015

TO: Jeremy Freimund, Water Resources Manager

FROM: Kara Kuhlman, Natural Resources Analyst

SUBJECT: Diesel Fuel Spill from *Whatcom Chief* (Whatcom County Ferry) in Hale Passage

On November 12, 2015, at 12:30 pm there was a small diesel fuel spill (approximately 2 gallons) into Hale Passage that occurred during refueling of the Whatcom County ferry, the *Whatcom Chief* (Vessel No. 288249), at the Gooseberry Point ferry terminal. The Lummi Nation was notified of the spill by the Whatcom County Ferry Division Manager (Rob Nye), who contacted the Lummi Water Resources Manager (Jeremy Freimund) via telephone on November 12, 2015 at approximately 3:15 pm, as well as by the State Emergency Operations Officer (Scott Caldwell), who contacted the Lummi Chief of Police (Ralph Long) via email on November 13, 2015 at approximately 3:30 pm.

The spill was reported to the National Response Center (NRC) by Whatcom County staff who described the incident as follows: “While fueling the ferry there was an overflow due to a restriction in a line which resulted in a discharge of diesel fuel that impacted the deck of the vessel as well as the Hale Passage waterway.” Record of the spill (NRC No. 1133384) is available at the U.S. Coast Guard National Response Center website (<http://www.nrc.uscg.mil/>). Additional information was provided by Rob Nye, who was present during the refueling. Mr. Nye stated that a couple of gallons total were spilled and most of the diesel fuel discharged to the deck. The diesel fuel that spilled on the deck was contained and cleaned-up. However, with the high winds, Mr. Nye said that he felt that some of the fuel probably got into the water was not recoverable.